

Home

An Argus Spectator Publication

Computing WEEKLY

No. 37
Nov 15-21, 1983

50p

**FREE
T-shirts**

We've got
hundreds from
**BUG-BYTE
SOFTWARE**
to give away

Software
reviews for:
Spectrum, BBC,
Atari, Oric,
Dragon,
TI-99/4A,
Commodore 64

Two pages of
your letters

Programs to
type in for:
Dragon, VIC-20,
Spectrum, Oric,
Atari, Texas

ocean
TWO NEW RELEASES
FOR THE ZX SPECTRUM
**DIGGER
DAN**
TRANS VERSION
For only 20 Spectrums
WORKS! £5.90
OCEAN SOFTWARE
available from all leading computer
retailers or direct from the publisher
OCEAN SOFTWARE LTD, 100, High Street



Make a date with a micro

Now your computer can find the love of your life... and work out the good and bad points of your partnership.

Both our questions devised by experts, including a psychiatrist who has written guides for women's magazines.

The Dating Game and i Do you £17.95 each for the BBC and Spectrum computers and not each on two channels in video cassette-only boxes.

Both were devised and written by Lisa Berg Software and are being marketed by Argusware.

The Dating Game, which is four separate programs, is based on a book by Dr Glen Wilson, of the University of London's Institute of Psychiatry.

Designed to hold data on up to 40 people, it asks 19 questions. Answering them should men and women find on page 5.

Giant's step into the home

How well IBM's newly-released home computer fare when it matches up from America?

A leading London IBM design department moved as "success", but Commodore's UK marketing manager says he has serious doubts.

The PC Junior, on sale in the UK only next year, has a few 16-bit processors and a library confirms its board which cost less than most with an ultra-hot team.

There are two models featured on page 8.



home computer:
the first pictures



Another devastating new game from the fabulous Postern range.

Defend the flock of marauding FIRE HAWKS
Escape from the SNAKE PIT
Sides the mighty SANDDOWN
Prepare to repel the enemy
in 3D G3

Defend our planet from
destruction in 3 DEEP SPACE



The colourful Postern range is available on a variety of micros. While quantity of each game required in the boxes provided.

Postern Serial No.	Spectrum	Geo/Vis 20	BBC B
Fire Hawks	50-95	<input type="checkbox"/>	<input type="checkbox"/>
Snake Pit	50-95	<input type="checkbox"/>	<input type="checkbox"/>
Sanddown	50-95	<input type="checkbox"/>	<input type="checkbox"/>
3 Deep Space	50-95	<input type="checkbox"/>	<input type="checkbox"/>
<p>Total £ _____ in Pounds No. _____</p> <p>Name _____</p> <p>Address _____</p>			



POSTERN

POB 10, Postern Ltd., P.O. Box 1, Juddeswood, Chesham, Bucks MK36 5NN
 Call me 0494 644646 Telex 432071 Postern 37735
 Postern is always on the look out for any new games you might have developed.

BBC BEST NEW CATALOGUE

Send top stamp to:
Software Consultants,
87 Haverhill Lane,
London SW15 3JG

Program with the less fattening centre

Who said diets were fattening? Well, the ones in your Spectrum aren't, especially when you use them to run Dieto, a new calorie-counting program from a company off the same name.

Dieto will calculate the calorie and fibre content of any dish, but that's not all. It will work out which ingredients in a recipe contribute the most calories, and tell you how to adjust the recipe accordingly.

It will also suggest alternative low-calorie ingredients that you can use instead of fattening ones.

Dieto will work with recipes of up to 15 ingredients, and the makers say it has been tested on over 30 different recipes from four different cuisines.

If you have a printer, you can print out list of ingredients and calories and fibre content.

A DOS version is due next year. The Spectrum version costs £9.

Save, A Little Clear, Culture
Micrograph 4000 324

Antidrone, has brought out a bumper edition of programs to save for Christmas shopping. They include a Big 80, game pack for the Dragon, costing £1.99, two dual program sets each, with a VIC 20 version on one side and a Commodore 64 version on the other, three new gamepacks and one on disc for the 64, plus newspaper based games, and two new VIC titles.

Antidrone, PO Box 55, Kewley

Two could be a companion or two, or for Christmas it can be a software game. Each partner can use their home, and all you have to do is push the button, number keypad games on the screens use 26 Commodore 64s, and 100 runners-up will act as your opponents. Available software for the VIC 20, Commodore 64 and Dragon. Later release GameDragon for the VIC 20 and 64, which allow you to make up your own machine code computer games. They cost £9.95 and £11.50 respectively.

**Games Software, One 7, Lamb
Ard Street, Chalfont St Giles,
Buckingham, Bucks HP8 4PP**

Home Computing WEEKLY

News 2-7

U.S. Scene 7

Software reviews 10
New screen games for BBC, Spectrum, Amstrad, C64 & 486

VIC-20/Commodore 64 program 10
Test your taste in wine... too!

Free T-shirt offer 10

Software reviews 10
Games for Commodore 64, Amstrad, Spectrum

Dragon program 10
Let your mouse look after your money

Software reviews 10
Teaching programs for Dragon and Spectrum

Eric program 17
It's a little formula, a whole pleasure

Two pages of letters 25-26

Software reviews 27
Logic and strategy on Dragon, Spectrum, Texas

Spectrum program 27

TI-99/4A program 27
Crash the apples, avoid the lasers

Software reviews 27
for BBC, Dragon, Spectrum

VIC-20 program 27
Try an exercise course in space

TI-99/4A software reviews 40

One Child's View 45

Spectrum program 45
Find the hidden cycle

Test Sellers 47

Atari program 50

TI-99/4A program 51

Editorial Editor
Production Editor
Circulation Editor
Design
In our interest
Managing Editor
Post Office

Advertisement Manager
Sales Editor
Marketing Advertisement Manager
Sales Director
Classification Advertising
Bills of Materials
4th Floor
Post Office

Atari Spectrum Publications Ltd

149 Charing Cross Road, London WC2R 3EE. 01 407 1002

Home Computing Weekly is published twice weekly, Thursdays and Fridays

Printed and Published by: 17-18 Paul Street, London EC2A 4LE. Printed by

Atkinson Presses & Son Ltd of London and Manchester. Design and

illustrations by M. J. (Design) and Post Office (Design) Ltd, London WC2R 3EE

BUY THIS SPACE

To advertise
your latest product!
Ring Graham or Jerry on
01-407 1002 NOW!

IBM

What does IBM's new home
computer look like? Details
and pictures will be page 18



More problems? Use Dragon
programs, which start on page 19,
and look after your
finances.

BUG-BYTE SOFTWARE

Turn to page 19 and find out
how you stand a chance of
winning a Bug-Byte T-shirt



There are two great Spectrum
programs on this cover. They
start on pages 22 and 44

MISSILE DEFENCE



SPECTRUM

Bring the mail to rest using game balls on the automatic launch or the eye sensor. Defeat your boss with the death attack and earn points. 10 skill levels.

At various points around north-south highways, "Powers" which sometimes last as long as 100 miles, leave tracks in the water. The air above the tracks are released by wind waves. The waves that create and move the tracks are not the same as the waves that move the water. The waves are 100 to 200 feet high and move at 10 to 20 miles per hour. The waves are 100 to 200 feet high and move at 10 to 20 miles per hour. The waves are 100 to 200 feet high and move at 10 to 20 miles per hour.

A pioneering escape puzzle game with no over-the-top gratuitous graphics, *Great Escape* rewards intelligent and creative players with a long chain of brain-busting puzzles. However, the difficulty level is not too high. While you and Lucy are working toward the finish line, you can pause the game almost at any time, giving you the ability to take a break or a nap. You still need to explore and uncover the story.

PowerPoint presentations. All sampling protocols include color graphics and sound effects. Features include: printed, glossy color, full-page format, color, format settings.

[illegible]

AVAILABLE SEPT. 1983		
BOOKS	PRICE	U.S. \$
RESEARCH	10.00	10.00

ANIROG SOFTWARE

2 HIGH STREET, HORSLEY, SURREY.
- BANK CREDIT CARD SALES HORSLEY HORSLEY
PAYMENT BY CHARGE, P.O., ACCESS VISA
125-5000000000000000

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 111–118

TRADE ENQUIRIES

29 WEST HILL
EASTON, ILL. 60120

IBM Junior

From front page

■ A 64K RAM version, costing the dollar equivalent of £112, has 64K of RAM, two cartridge slots, an audio tone generator unit, with an adapter or synthesizer, displays up to 40 columns on a discrete TV or monitor.

■ The 160 model has twice the RAM, an 87-column display and built-in double-sided 5 1/4-in. disk drive for 30K of storage.

Both run BASIC on cartridge and IBM says that, with its new disc operating system and disc drive, the Junior will run head-derived programs written for its highly successful Personal Computer.

And even the two models were available in the same price, including a £118 thermal printer, joystick and a communications device.

And there are more than a dozen demo programs, including games, education, word processing, home finance, updated database software and spreadsheet using a spreadsheet system to present like spreads.

IBM believes a popular home system will be the redesigned model with TV connector, thermal printer, DOS 3.1 and cartridge BASIC. Total price about £1,000.

The president of IBM's sales systems division, Philip Kordick, said reviewers to computing would use the Junior quickly, and people with experience would appreciate its quality and versatility.

A program called Keyboard Advertiser is built into the Junior's ROM to teach the keyboard. And there are two flow discs with the same program model to show how it works and give sample programs.

The Junior uses Intel's 8088 processor, and IBM says some adapter cards have been eliminated by including circuits for things like joystick, serial port and colour graphics on the main board.

Each key can be user-defined and there are colour coded numeric keys. It more than one Junior is being used in the same room, a full cable is needed to replace the data and control cable.

A second new printer, costing £1,245, uses plain paper up to nearly 15m wide to produce text or graphics in eight colours at a claimed 200 characters per second line density, 119 cps for dot representation and 35 cps for laser quality.

IBM has not announced when the new computers will be available in the UK and all prices are direct conversions (£1.48 equals

£1 of prices in IBM's US product catalogues).

IBM's Personal Computer was on sale here 17 months after its US launch — although "grey" imports were available earlier. Michael Kaufman, manager of Central London IBM dealers Brown, hopes it will be sooner this time.

He said: "It sounds an exciting product. The lower-priced model is a bold move. People are going to buy it because it can be easily upgraded, perhaps people who use IBM at work."

The upper-tier version will be very expensive. It will be cheaper than the IBM compatible with a Turbo disk pack.

Commodore's UK marketing manager John Brown said customers would expect a 160-Kbyte computer from a company with IBM's standing, but the Junior would not live up to it.

He said: "IBM is the biggest corporation in the world and it can afford to make mistakes. It has supplied industry and governments for years but I don't think they yet understand the home computer market."

"They will learn and it won't cost them much because they are so big."

As an example, he said, BASIC had to be bought as an extra on cartridge. In fact, he estimated it would cost an added £60 before the Junior could be sold.

IBM Limited, Kingston, PO Box 41, North Parkhouse (Ratcliffe House), Portsmouth PO6 1AL.



Both models of the Junior look the same, but in the cheaper version a sliding glass covers the opening for the disk drive. Below is just two cartridge slots. The second opening is for the cable to control and the grille is for the speaker and for ventilation.



Designed for Junior users — IBM's new thermal Compact Printer



IBM's PC Junior with the thermal printer perched on top of the main unit

Software? Look in the Mirror

Mirrorsoft, the software publishing company set up by Mirror Group Newspapers, is launching its first three programs now. Meanwhile:

In keeping with the Mirror's origins as a family newspaper, Mirrorsoft will be concentrating on programs for all the family, with the emphasis on children's educational software.

It will be selling programs for the BBC B, Spectrum, Commodore 64 and Spectrum. The programs will be on sale in High Street chains including Books and Scribbles, as well as in mail order outlets in the Mirror and other Mirror Group publications.

Besides their having its own software programmers, Mirrorsoft will be acting like a book publisher, providing marketing advice and facilities to small software companies.

The companies providing Mirrorsoft's first three offerings are Primer Educational, Andromeda and Widga.

Primer wrote First Steps with Mr Men, which contains four programs to teach children a range of skills, including first steps in reading.

It uses the Mr Men characters, and includes an illustrated

storybook book and a Mr Men label for the computer's keyboard.

It will be selling for £9.95 for the BBC B and Spectrum, and will be available on the Spectrum soon.

Mirrorsoft plans to follow up First Steps with the Mr Men picture program designed for Mr Men characters.

Andromeda wrote Cuscuta the Cat, a children's arcade game. The player has to guide Cuscuta along thistles to learn down the road that are eating plants of food. Price: £9.95 for the Commodore 64.

And from Widga, prototyping HCW 88, there's Quick Thinking, a package of two with various games for the family.

The first is FunVideo, where you have to do an addition or subtraction before a robot drops from a space ship can land. The game gets progressively faster, and two people can play.

There's also a ladder film about two players to play each other on different levels, so that a parent and child can compete on equal terms.

The second program is Quick Thinking's Robot Tables. Lots of robot-making material roll on to a conveyor belt, and so make a good robot you have to try whether the number on each lamp in the row is the most plausible number.

Tim Danksdale, of Widga, head of Mirrorsoft, says: "We've looked from very pleasant indeed and — they take as much as all levels of program development. And this has a very fast development on their team — the next one knows her stuff."

But from our point of view the best thing is that there are going to be more software companies who write the software.

Members of the program for all the machines in Mirrorsoft's first list look to be on before Christmas, with some new titles scheduled for early in the New Year.

Mirrorsoft hopes to sell at least 100,000 cassettes during its first year.

Briefly

If you think you've written a good flight simulation program, send it all to the Royal Aeronautical Society and you could win £200. There are two categories, one for under-18s and one for over-18s, and school terms. It will be an extraordinary weekend in a month, but hurry — entries must be in by the end of November.

David Armstrong-Jones, 4 Marquess of Pineridge, BtP, 1982.

Dial-up software, U.S.-style

When American Telephone and Telegraph (AT&T) was broken up into component companies recently, it advertised that it would have not only a new look, but a new outlook as well. Apparently, they were not kidding.

In a recent announcement, AT&T let it be known that they were entering into a joint venture with Colson Industries, the well known toy and computer game manufacturer.

Earlier this cooperation was a product, the two firms plan to develop a unique subscription service that will allow subscribers to play state-of-the-art video games at home via a telephone line modem connection. A special modem is being developed by Bell Labs especially for this purpose.

The plan is for AT&T to be responsible for the communications and billing side of things, while Colson will provide the games and other entertainment software.

Apparently the plan will enable subscribers to pay for the service on the same basis as they pay for their regular telephone service. No price for this service has as yet been announced.

The service is expected to be operational next year in a few major cities, but plans are in the works to make it available anywhere in the nation.

Although the game will be "interactive" it is not primarily known whether the degree of interactivity will allow, for example, a player to use those to play an opponent in another location.

The potential impact of this move by AT&T is not lost on most computer marketing companies. This is AT&T's first indication that they intend to enter the field of home computing, and the move is sure to have an impact on the firm's old people.

This will be especially true if the game can be made highly interactive. The cost must will certainly mean more long distance calls, and therefore more revenue. We shall see what happens.

★ ★ ★ ★ ★
If the brand names that you might remember as the past of the industry, at least in the computer world.

Least company to enter the video game. If I may tell the story in a bit, then, once after that the Teedy Corporation. They had an estimated \$400,000 Color Mouse for their Color Computer.

For those few of you who have just come back from a long trip away from civilization, it may be in the past of the trade, it almost the case is used for rapidly producing the most, instead of using keyboard controls or mouse and/or manual of some a person's controller. As I say, it is all the case this year will be.

Anyway, the Audio Mouse Color Mouse plan into a program. No announcement has come out as to who was controlled to build this thing, it could be any of a dozen more makes.

The main difference between Teedy's mouse and others, like that for Apple's case or for the IBM PC, is that this one was brought out already well environment and educational applications in mind.

I must add that the Teedy mouse is about \$100 cheaper than that for the IBM and possibly less expensive than many others.

At the moment, the mouse can only be used with three games, three being Polish, Swedish, and Wilderness. After to the point, it specially will not work with any more practical program, such as the Teedy spreadsheet program.

The collection of AT&T and is obviously not as good as those available for other more expensive computers, but should meet the requirements of the Color Computer's ability to handle school.

One industry observer reports that if nothing else, the product will make people realize there is nothing magical about mouse. I wonder what a company will know mouse named Ministry would have to say about that?

No more space. See you here again next week.

Bob Dore
Palo Alto, California

Software goes north

Glasgow's first home computer education now plans two Friday, Saturday and Sunday at the Anderson Education Centre — further proof that computing doesn't stop at Watford.

There were over 40 exhibitors at the show, including Mirrorsoft, Baines, software companies including Atari, Network and A&S Software, and a number of schools and user groups.

The show was the launch of the first programs from Scribble, the software company set up in Glasgow by ex-Mirrorsoft boss Bob Danksdale.

Scribble is selling software for the BBC, Spectrum, Commodore 64, and as range includes educational and word processing as well as games.

Danksdale says: "When I returned back to Glasgow from London, I was convinced that I'd be able to get a software company going. But there is a lot of value in being — a lot of people have computers. The financial health and loads of good programs."

The main drawback is that while in London my income was fairly healthy, in Glasgow I would just like everyone else.

Games

GSH

THE AMAZING ADVENTURES OF THE LAUGHING SHARK PART THREE

A FLYING SHARK !!!??

FROM HIS TROTTY TUMBLER, ANGLER NEARLY NERVOSED OUR HERO, WHO DECIDED IT WOULD BE SAFER, IN THE AIR.....

THE LAUGHING SHARK TROTS ON WET WINGS, AND BECAUSE MY FISHIE, HE'S HERE FOR DUNNY CATCHES.....

NO OLD BOY THE FLYING SHARK ACTUALLY.

WRONG AGAIN! IT'S RIDER

PARACHUTING HIS WAY TO A TOP SECRET MESSAGE TO CHECK OUT NERD RONDA - FIRST HAVING TO LAND, NOT RIDE A MOTORBIKE

GERONIMO

AW NUTS!

BETTER NOT DISTRACT HIM! ANY MISTAKES COULD PROVE PAINFUL, EVEN FATAL.....

LATER

FROM OVER METEOROLOGICAL DISASTERS, HAS STRUCK, A NEW BUILDING HAS COLLAPSED AND SCAFFOLDING SAYS ONLY MORE IS TO PLANE WALK TO SAFETY - BUT WATCH OUT FOR MONSTERS !!

AT CRUCIAL MOMENTS

OUR HERO WOULD BE BETTER OFF CATCHING THE VIRGIN GAMES CHICKENS OUT ALL THE FIBRE NEW GAMES.

THE TACK

ON MY A UNB!

UNLESS THE BONES DISTURB, EXACTLY CAN AND THE BENT MOUTH TO DISBURSE IT, OUR FISHY FRIENDS COULD BECOME SHARK PRISONERS!

WATCH OUT for the VIRGIN GAMES FUN BUS - on tour NOW

<p>Angler by GSH New from 499 1995 9795 Flying fish for all ages - but don't catch a cold!</p>	<p>Rider by GSH New from 499 1995 9795 Parachuting fish into the water - how many times can you catch a cold?</p>	<p>Monkfish by GSH New from 499 1995 9795 How many times can you catch a cold?</p>	<p>GSH by GSH New from 499 1995 9795 How many times can you catch a cold?</p>	<p>Shark by GSH New from 499 1995 9795 How many times can you catch a cold?</p>	<p>Ghost by GSH New from 499 1995 9795 How many times can you catch a cold?</p>
---	--	---	--	--	--



TAKING HURLED SHEETS
THE LAUGHING SWINE, FROM
HIMSELF IN COLD STAGNANT
SOUNDSCAPES BY DEARER
SPOTS, ONLY ONE HOME...

GO ON TO PAGE 1
ABC-A-BLOO
STARTS 10

1997年12月15日
 1997年12月15日
 1997年12月15日

THERE'S GOLD IN THEM THERE HILLS

TWO TO GO, HOPE ON THE WILDER BUS—
DESTINATION...
GHOST TOWN

THERE'S GOLD IN THEM THERE HILLS

TWO TO GO, HOPE ON THE WILDER BUS—
DESTINATION...
GHOST TOWN

THERE'S A LEGEND HEREABOUTS THAT SOMEWHERE IN TOWN ARE THE CLUES TO FIND THE MAP SHOWING OLD GAKES NAME.



R OF HIGH WATER, IN THESE PARTS, A SHARK COULD JAW OF TAYLOR—BOTTLE SWIMMING IT BACK.



NO BOWTIE HERE, YOU ASSHOLE.

DURING THE BOWTIE CHALLENGE, CHASE FOUND HIMSELF IN A STRANGE LAND...

**FULL-ON TUNE POWER—
FLANG, MINE, AND
WATCH OUT! SUMMER BOOTS
WENT A CRUNCHER!**



R OF HIGH WATER, IN THESE PARTS, A SHARK COULD JAW OF TAYLOR—BOTTLE SWIMMING IT BACK.



NO BOWTIE HERE, YOU ASSHOLE.

DURING THE BOWTIE CHALLENGE, CHASE FOUND HIMSELF IN A STRANGE LAND...

BETTER & FASTER
COMING - APPROXIMATELY
1985

LITTLE BOB THE LAUGHING
 GARDEN KNOWS THAT ON THE
LAUGHING HE WAS PREPARED
 WANTS TO BE KNOWN A PERSON
 OF GREAT D. TENDANCE —
 WITH A SENSE OF PERSON—


 THE PEOPLE TO FACE
 I THINK THE FUTURE
 JOURNAL, HAS AROUND
 FROM AROUND FROM
 GAMES DOCUMENT ALL.....

LITTLE BOB THE LAUGHING
 GARDEN KNOWS THAT ON THE
LAUGHING HE WAS PREPARED
 WANTS TO BE KNOWN A PERSON
 OF GREAT D. TENDANCE —
 WITH A SENSE OF PERSON—


 THE PEOPLE TO FACE
 I THINK THE FUTURE
 JOURNAL, HAS AROUND
 FROM AROUND FROM
 GAMES DOCUMENT ALL.....

MAIL ORDER
All our programs are available at normal retail prices including postage and packing direct from our "HOT LOCAL DEALER" STILL DOESN'T EVEN HAVE PROGRAM DESPITE THE FACT THAT THEY'RE REALLY GOOD!
DEPARTMENT at 1-42 Portland Road
London W15.

MAIL ORDER
All our programs are available at normal retail prices including postage and packing direct from our "HOT LOCAL DEALER" STILL DOESN'T EVEN HAVE PROGRAM DESPITE THE FACT THAT THEY'RE REALLY GOOD!
DEPARTMENT at 1-42 Portland Road
London W15.

COLOUR CATALOGUE
If you want a copy of our colour page colour catalogue filled with the details of all our games, please write to the "DESIGN & CATALOGUE" QUICK SERVICE

COLOUR CATALOGUE
If you want a copy of our colour page colour catalogue filled with the details of all our games, please write to the "DESIGN & CATALOGUE" QUICK SERVICE



Cranston
 by Michelle Kipley
 10/1/01

With 2001
 Cranston has
 been named the
 most popular actor
 in the "American"
 People's Choice



The island
by Stephen Davies
Landscape 1981
500 x 1000
Mixed media
transmission is a ball
1000 x 1000
with a ball
transmission.

DEPARTMENT™ ordering on A4 541 (with
Tip Stamp)

THE "I WANT TO BE RICH AND FAMOUS DEPARTMENT"

We are always here to receive any original, entertaining programs with good graphics at no charge. **I WANT TO BE RICH AND FAMOUS DEPARTMENT** from any of our programming ideas start out there. Don't delay a second today.

THE "I WANT TO BE RICH AND FAMOUS DEPARTMENT"

We are always here to receive any original, entertaining programs with good graphics at no charge. **I WANT TO BE RICH AND FAMOUS DEPARTMENT** from any of our programming ideas start out there. Don't delay a second today.

[illegible]

VIRGIN GAMES GANG
Our **GAMES** is growing in numbers all the time,
and everybody who buys one of our **NEW**
GAMES will receive:

- [illegible]

[illegible][illegible]

Chuckie Egg 48K Spectrum £6.99

A & F Software, 830 Hyde Road,
Canterbury, Kent, ME1 1SD

A game for me to test players. Chuckie's no special treasure, but he's provided for those who do. He's a simple, but not simple, game.

Point and About Controls are both in.

You have five lives for the whole game and, if you run out of lives with lots remaining, you can start a new game.

You, the lucky little yellow bird, is the first to start. You have the ladder, jump, and move. You can also collect eggs by tapping on them. Presumably you like collecting.

Lives become progressively difficult to score eggs and avoid

a more difficult level and the appearance of elements. Hoping careful timing and luck to progress.

I found level three particularly difficult, as the jump box seems to produce random height variations. So I have only reached level four once without enough time to even get started and there may be further levels.

There is a score and running score display. If you don't look at it, and a wall of flames

I did find the manual jump ladder jumping after a while but do the whole game is more enjoyable fun game and very addictive. It's a little easy. Try it.

It's a little easy. Try it.

Gameplay
Graphics
Value for money

40%
80%
90%

★★★★★

Q*Bert 52K BBC £7.95

Software Software, Dept. A25, 40
Leeds Road, Bramley, Leeds

This new offering from Software Software is a familiar spectacle, not so far removed from a game which is already very popular in schools.

For those in a hurry, a small figure stands a present of color, having said that it's a little better value as it is a familiar one.

Your figure is a small red flower with a light blue, which you can drop down across the cake.

But watch out for the bouncing balls which appear at the top of the screen and can be eaten.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

It's a little easy. Try it.

Screens with new scenes

Our reviewers tried out some new action games with new themes

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

which appear occasionally and the action is

Dicky's Diamonds Commodore 64 £6.99

Bomb, 271 Argyle Avenue,
Glasgow, G3 7LW

The playing area for this original game is a spider's web, in the middle of which is a diamond.

At the beginning of the game you must move your web along each strand of the web, turning the diamond back as you go.

The last strand where you turn back must be one of the four strands, and it is the last strand of the web, the spider must be on the strand as you move on to it.

While you are working on the web the spider will walk along the strand with only, except when it is on a strand end, or which has a wall or spider web hole.

If you move a spider, then it will kill you.

But they should stay away from the spider. There are no spiders in the game, but the spider will kill you if you move it. The spider will kill you if you move it.

If you manage to follow the diamond then the web spider and spider will kill you if you move it.

If the last strand of the web that you move is not on the ground, then the web spider and spider will kill you if you move it.

The spider will be played with the spider and spider. It is a very well designed and plays very well. It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

Steeple Jack Atari 400/800 £14.95

English Software, PO Box 40,
Birmingham B14 6NW

This game features a little bit of action, a little bit of strategy, and a little bit of luck. It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

It is a very well designed and plays very well.

LOOK
FOR THE
'ULTIMATE' NAME
FOR THE
'ULTIMATE' GAMES

JET PAC

[illegible]

£5.50 each

NEW SPECTRUM BRIDGE PLATES

These new Bridge Plates are designed to be used with the Spectrum Bridge Tutor. They are available in a variety of sizes and are priced at £1.99 each. They are available from all good software shops.

SUPERCHESSE FOR THE SPECTRUM THE BEST AT £7.99

A 4 month old 100% original chess program. The only chess program on the Spectrum that can play at a Grand Master level. It is available from all good software shops.

28 DRAUGHTS FOR THE SPECTRUM £1.99

A 4 month old 100% original draughts program. It is available from all good software shops.

SPECTRUM BRIDGE TUTOR

Learn to play bridge with the Spectrum Bridge Tutor. It is a 4 month old 100% original program. It is available from all good software shops.

COLLOSSAL CAVER

A 4 month old 100% original caver program. It is available from all good software shops.

ORIGINAL SUPERCHESSE FOR THE SPECTRUM £7.99

A 4 month old 100% original chess program. It is available from all good software shops.

164 SUPERCHESSE EX-100

A 4 month old 100% original chess program. It is available from all good software shops.

EXCELSIOR

A 4 month old 100% original program. It is available from all good software shops.

Spectrum software

SHAL LOGO

A 4 month old 100% original program. It is available from all good software shops.

FLOATING POINT FORTH

A 4 month old 100% original program. It is available from all good software shops.

ORIGINAL SPECTRUM FORTH

A 4 month old 100% original program. It is available from all good software shops.

SUPERCHESSE

A 4 month old 100% original program. It is available from all good software shops.

Speech from the Spectrum

A 4 month old 100% original program. It is available from all good software shops.

GP Software makes a variety of software for the Spectrum. It is available from all good software shops.

GP SOFTWARE Dept Orchard Lane, Prestwood Bucks HP16 0NN

TOP RATES PAID FOR HIGH QUALITY PROGRAMS
SEND YOUR MATERIAL FOR EVALUATION AND PROMPT REPLY

TEXAS INSTRUMENTS TI 99/4A Solid State Software

Some of our Crazy Prices for Software

EXTENDED BASIC	£22.95
MINI MEMORY	£22.95
BLASTO	£18.95
PARSEC	£24.95
TUNNELS OF DOOM	£26.95
SOCCER	£18.95
MURDERMAN	£24.95
PARCO SOFTWARE THE CASTLE (GRAPHICS CASSETTE IN EX BASIC)	£25.95

POST & PACKING FREE - VAT INCLUDED
SEND S & E FOR FULL PRICE LIST
PLEASE MAKE CHEQUES PAYABLE TO

PARCO ELECTRICS

4 DORSET PLACE, NEW STREET
HONITON, DEVON, EX14 8QS
TEL: HONITON (0404) 44025

TOP SAVINGS

PRINTERS - Also Available Seikosha, Oki, Star, Qume, Olivetti, TEC, Mannesman Tally

Speed	8000	£
	8000/177	299
	1570/400	219
	1570/400/177	339
Build	800 (PC)	699
Depth Coverage	177	299
Just	4400	359
Book	50-15000	919
	50-15000	1199
Book	4000	379

COMPUTERS

Commodore	2000	£
	200	799
	1000	189
Speed	1000	319
Spectrum	400	109

Prices exclude VAT. Next day insured delivery 1/10
(Monday to Friday, 9.00-5.00)
If you are in a hurry, call us and our
suburban computer store will be happy to help.

MAYFAIR MICROS

5th FLOOR 55 DUNE STREET LONDON W1 Tel: 01-499 2407

VIC-20/COMMODORE 64 PROGRAM

```

1000  REM *****
1010  REM *****
1020  REM *****
1030  REM *****
1040  REM *****
1050  REM *****
1060  REM *****
1070  REM *****
1080  REM *****
1090  REM *****
1100  REM *****
1110  REM *****
1120  REM *****
1130  REM *****
1140  REM *****
1150  REM *****
1160  REM *****
1170  REM *****
1180  REM *****
1190  REM *****
1200  REM *****
1210  REM *****
1220  REM *****
1230  REM *****
1240  REM *****
1250  REM *****
1260  REM *****
1270  REM *****
1280  REM *****
1290  REM *****
1300  REM *****
1310  REM *****
1320  REM *****
1330  REM *****
1340  REM *****
1350  REM *****
1360  REM *****
1370  REM *****
1380  REM *****
1390  REM *****
1400  REM *****
1410  REM *****
1420  REM *****
1430  REM *****
1440  REM *****
1450  REM *****
1460  REM *****
1470  REM *****
1480  REM *****
1490  REM *****
1500  REM *****
1510  REM *****
1520  REM *****
1530  REM *****
1540  REM *****
1550  REM *****
1560  REM *****
1570  REM *****
1580  REM *****
1590  REM *****
1600  REM *****
1610  REM *****
1620  REM *****
1630  REM *****
1640  REM *****
1650  REM *****
1660  REM *****
1670  REM *****
1680  REM *****
1690  REM *****
1700  REM *****
1710  REM *****
1720  REM *****
1730  REM *****
1740  REM *****
1750  REM *****
1760  REM *****
1770  REM *****
1780  REM *****
1790  REM *****
1800  REM *****
1810  REM *****
1820  REM *****
1830  REM *****
1840  REM *****
1850  REM *****
1860  REM *****
1870  REM *****
1880  REM *****
1890  REM *****
1900  REM *****
1910  REM *****
1920  REM *****
1930  REM *****
1940  REM *****
1950  REM *****
1960  REM *****
1970  REM *****
1980  REM *****
1990  REM *****
2000  REM *****

```

```

2100  REM *****
2110  REM *****
2120  REM *****
2130  REM *****
2140  REM *****
2150  REM *****
2160  REM *****
2170  REM *****
2180  REM *****
2190  REM *****
2200  REM *****
2210  REM *****
2220  REM *****
2230  REM *****
2240  REM *****
2250  REM *****
2260  REM *****
2270  REM *****
2280  REM *****
2290  REM *****
2300  REM *****
2310  REM *****
2320  REM *****
2330  REM *****
2340  REM *****
2350  REM *****
2360  REM *****
2370  REM *****
2380  REM *****
2390  REM *****
2400  REM *****
2410  REM *****
2420  REM *****
2430  REM *****
2440  REM *****
2450  REM *****
2460  REM *****
2470  REM *****
2480  REM *****
2490  REM *****
2500  REM *****
2510  REM *****
2520  REM *****
2530  REM *****
2540  REM *****
2550  REM *****
2560  REM *****
2570  REM *****
2580  REM *****
2590  REM *****
2600  REM *****
2610  REM *****
2620  REM *****
2630  REM *****
2640  REM *****
2650  REM *****
2660  REM *****
2670  REM *****
2680  REM *****
2690  REM *****
2700  REM *****
2710  REM *****
2720  REM *****
2730  REM *****
2740  REM *****
2750  REM *****
2760  REM *****
2770  REM *****
2780  REM *****
2790  REM *****
2800  REM *****
2810  REM *****
2820  REM *****
2830  REM *****
2840  REM *****
2850  REM *****
2860  REM *****
2870  REM *****
2880  REM *****
2890  REM *****
2900  REM *****
2910  REM *****
2920  REM *****
2930  REM *****
2940  REM *****
2950  REM *****
2960  REM *****
2970  REM *****
2980  REM *****
2990  REM *****
3000  REM *****

```

```

3100  REM *****
3110  REM *****
3120  REM *****
3130  REM *****
3140  REM *****
3150  REM *****
3160  REM *****
3170  REM *****
3180  REM *****
3190  REM *****
3200  REM *****
3210  REM *****
3220  REM *****
3230  REM *****
3240  REM *****
3250  REM *****
3260  REM *****
3270  REM *****
3280  REM *****
3290  REM *****
3300  REM *****
3310  REM *****
3320  REM *****
3330  REM *****
3340  REM *****
3350  REM *****
3360  REM *****
3370  REM *****
3380  REM *****
3390  REM *****
3400  REM *****
3410  REM *****
3420  REM *****
3430  REM *****
3440  REM *****
3450  REM *****
3460  REM *****
3470  REM *****
3480  REM *****
3490  REM *****
3500  REM *****
3510  REM *****
3520  REM *****
3530  REM *****
3540  REM *****
3550  REM *****
3560  REM *****
3570  REM *****
3580  REM *****
3590  REM *****
3600  REM *****
3610  REM *****
3620  REM *****
3630  REM *****
3640  REM *****
3650  REM *****
3660  REM *****
3670  REM *****
3680  REM *****
3690  REM *****
3700  REM *****
3710  REM *****
3720  REM *****
3730  REM *****
3740  REM *****
3750  REM *****
3760  REM *****
3770  REM *****
3780  REM *****
3790  REM *****
3800  REM *****
3810  REM *****
3820  REM *****
3830  REM *****
3840  REM *****
3850  REM *****
3860  REM *****
3870  REM *****
3880  REM *****
3890  REM *****
3900  REM *****
3910  REM *****
3920  REM *****
3930  REM *****
3940  REM *****
3950  REM *****
3960  REM *****
3970  REM *****
3980  REM *****
3990  REM *****
4000  REM *****

```

Write your own machine code adventures

Without any knowledge of machine code whatsoever

THE QUILL



THE QUILL is a major new entry system in machine code which allows even the novice programmer to produce high speed machine code adventures of superior quality to many available at the moment without any knowledge of machine code whatsoever.

Using a simple selection system you may create well over two thousand, describe them and interact scenes between them. You may draw 80 three scene objects and problems of your choice. Having created your adventure you may also add super scenes with any scenes with the greatest of ease. A post formatted adventure may be saved to tape for later completion. When you have done so THE QUILL will allow you to produce a copy of your adventure which will run independently of the main QUILL software so that you may give experience to your friends.

THE QUILL is provided with a detailed internal manual which covers every aspect of its use in every situation. It is impossible to describe all the features of this amazing program in such small space so we have produced a demonstration version which gives further information and an example of its use.

This demo version is available at £2.99, and THE QUILL itself at £14.95.

FOR THE 486, SPECTRUM AT £14.95

Our Software is now available from many computer shops nationwide, or direct from us by post or telephone

SASE for full details of our range

Dealer enquiries welcome

GILSOFT

20 Moorlands Road
Barry
South Glamorgan
CF64 1EP
Winston TROOP

TELEPHONE YOUR ORDER
WITH



T-SHIRT OFFER

FREE

T-shirts...

we've got hundreds to give away

You could soon be wearing a T-shirt just like the one in our picture. We've got 750 to give away — and they're absolutely free.

They have been produced in a limited number for Bug-Byte, the Liverpool-based software company.

Made of good quality white cotton, each T-shirt is worth about £3.

On the front is a red and green bug below the words "Byte-me." And on the back is the phrase: "I've been bitten!"

All you have to do is cut out the voucher below and the voucher in next week's issue and send both to us with the coupon in issue No. 19 of Home Computing Weekly, due out on November 29.

You will be asked to specify which size — small, medium or large — you would like, along with your second choice.

You will receive a free T-shirt within 28 days if your envelope is among the first 750 we open, depending on the size requested.

Any which do not contain the two vouchers and the coupon — originals, not copies — will be discarded. Only one T-shirt per household. And

envelopes which arrive before November 30, after our official publication day, will also be discarded.

Do not send anything to us now.

Employees of Argus Specialist Publications, Bug-Byte and Alastair Pittmore & Sons are excluded from this offer. This restriction also applies to employees' families and agents of the companies.

The editor's decision is final and no correspondence will be entered into.

Free T-shirt

HOME
Computing
with
BUG-BYTE
SOFTWARE

**1
voucher**

Make sure you get the next two issues of Home Computing Weekly and you stand a chance of receiving one of 750 free T-shirts, distinctively designed for software house Bug-Byte

Mysterious Adventures

WHAT ARE MYSTERIOUS ADVENTURES?

MYSTERIOUS (Adjective) - "Befitting full of mystery, strange or unaccountable."

ADVENTURE (Noun) - "An enterprise full of risk or danger; an experience of unknown events endangering the participants life; a gamble on factors or events."

To start play on a **MYSTERIOUS ADVENTURE** is to take a step out of the world of reality and into the world of dreams. Your computer is your guide on these hazardous journeys in time and space where danger is ever present and solutions to problems seldom come easy.

By typing in simple commands in plain English you can "talk" to your computerized guide and with what your next actions are to be.

MYSTERIOUS ADVENTURES bring a frightening reality to the worst situations in which you will find yourself. You will become involved in these strange worlds of the imagination; you will feel anger when things seem to be moving against you; you will feel elated when you overcome obstacles that are set in your way. Eventually you will feel comforted as you break the chains of your misdeeds and move on to yours.

Any **MYSTERIOUS ADVENTURE** is not a situation to be taken lightly; success will never be instant - just as Rome was not built in a day. In each Adventure can rarely be completed in one session. To this end a "SAFE GAME" feature has been incorporated in each of the Adventures. This means that at any given time during play of an Adventure you can stop on tape your path for whereabouts, what equipment owned, and any other pertinent details about your present situation.

NEW DEVELOPMENTS ON MYSTERIOUS ADVENTURES

Over the past few years, Adventure programs on Computers have almost always been presented in the classic "Text only" mode. The more Adventure players this has limited how the way they prefer to play Adventures. The mental imagery generated by such an approach is limited only by the player's own imagination. One of the main reasons for the "Text only" approach has been the lack of funds or capabilities with regard to Graphics resolution - Personal Adventures could at best be only very limited in scope.

This situation is changing now however, and Brian Howard, author of the **MYSTERIOUS ADVENTURES** series, has spent many hours incorporating Graphics into the Adventures. By working in close cooperation with Jan Blazewicz, a professional Artist, Brian has produced a series of extremely vivid and imaginative Adventures. Each **MYSTERIOUS ADVENTURE** now features, in addition to the Text description, pictorial "views" of your current location and surroundings. As you enter each new location, a high resolution colour picture is rapidly drawn. The effect of this is to bring much more reality to the Scenario; you can actually see the situation you are faced with and act accordingly. It must be stressed that such pictures are both designed so that it will enhance, rather than conflict with, your mental images. At the single stroke of a key, you can erase the picture and carry on with your Adventure in text only if this is your preference. We are confident that as other Adventure programs can boast such breathtaking realism and imagination combined with the flexibility and ease of play that have made **MYSTERIOUS ADVENTURES** such a phenomenal worldwide success.

In addition, the Adventures now feature full answers decoding as standard. These mean that you are no longer restricted to inputting single or two-word commands. You can now type in whole sentences in more or less plain English. Your computer will quickly analyze the sentence and perform a whole string of your commands. Just another feature designed to maximize your enjoyment of these world beating games!



The "New style" **MYSTERIOUS ADVENTURES** are currently available for the
IBM SPARCULAR COMMODORE 64. More releases are planned this year which will include
DRAGONAIR ONE II, APPLE II & III, ATARI TINY, MATTEL AQUARIUS IBM PC etc.
Please write or phone for availability.

HAVE YOU BEEN INVOLVED IN A MYSTERIOUS ADVENTURE RECENTLY?



If so, it is quite probable that you are presently suffering from The more commonly known as The Involvement Syndrome.

The manifests itself in a number of ways, such as the most characteristic symptoms being a victim's own personal ability to feel at ease in the world around him. Other symptoms include loss of time, a decrease in the power of thought, and an overwhelming sense of being in a dream.

Experts believe that this is usually contracted as a result of an adverse reaction to Mysterious Adventures, and is commonly caused by being, any of the following Home Computers:

IBM PC/XT/AT, PC-MODEL 5015, T1000, COLOUR GEM, ATARI 400/600, COMPTON PENT 24, SUGARSHOT, VIKI 2001, LYNG 200.

When questioned about this syndrome, a representative of DIGITAL FANTASIA, a computer video and activity magazine in research and development work on Mysterious Adventures, said, "It is probably so called for the other reason would be, that many RAM chips are which can be damaged only a temporary solution". In the absence of a more permanent cure, I would advise the sufferers to submit to the syndrome and obtain Mysterious Adventures from any sources available. However, if this is highly contagious and in use of the current worldwide epidemic, I would say enjoy it while you can, because it is subtle".

If diagnosed in the Computer, Colour GEM, and Spectrum, Atari 400/600, or Dragon 32 version please Mysterious Adventures 24, of the following models:

- 1) THE GOLDEN EAGLE
- 2) THE TIME MACHINE
- 3) ARROW OF DEATH (PART 1)
- 4) ARROW OF DEATH (PART 2)

- 5) ARROW OF DEATH (PART 3)
- 6) ARROW OF DEATH (PART 4)
- 7) ARROW OF DEATH (PART 5)

- 8) THE WIZARD ARROW
- 9) PERSEUS AND ANDROMEDA
- 10) THE LITTLE INDIANS

Remember to always use the correct version of the software, and to always use the correct version of the software.

11) MENTAL HEALTH WARNING: Mysterious Adventures 24 is a highly contagious and in use of the current worldwide epidemic, I would say enjoy it while you can, because it is subtle".

For more information on this syndrome, please contact:

DIGITAL FANTASIA
24 NORWICH ROAD NORWICH, SUFFOLK, ENGLAND NR1 1JH
TELEPHONE: 01603 251111

For more information on this syndrome, please contact:



CHANNEL 8 SOFTWARE

1000 GRAFTON STREET, AUSTIN, TEXAS 78701-1101

CHOOSING A HOME MICRO

WARNING

Choosing a home micro can be a daunting task to the newcomer, and with an ever increasing number of micros emerging on the market, even up-grading, say, from a ZX81 can be a risky and expensive exercise if the wrong decision is made. It is important to look at the real facts and specifications, and check exactly what you get for your money before choosing your micro-computer system.

THE PITFALLS

"DON'T LET THE ADD-ONS ADD UP"

A number of large companies are offering packages that seem to be good value and low cost. These offers usually have a hidden sting in them, such as the essential accessories such as connection leads, peripherals and software often being very high cost premiums, e.g. software for two cost hardware possibly costs between £25 and £40 for a 8086 cartridge!

CHECK THE QUALITY OF THE PRODUCT

New materials are now on the scene where certain can be cut and shaped without breaking during building can affect the lifespan of your unit. Agree to watch out for any grossly defective components, especially all good quality CPUs. Use quality components and lead design will greatly affect the reliability of the unit and product, and can lead to false economy.

DON'T BUY A GAMES MACHINE

When you want just games and nothing else! With a games computer you are limited. Some computers, however, have the advantage of both games facilities, the whole world of computing to explore, games control and skills develop. A real computer system will allow you expand your knowledge of the micro technology world, and help you to grow with its added costs in the field of education, communications and Personal Business use.

SOFTWARE

Make sure the system you choose has a growing library of support software, in order to be able to realise the full potential of your machine.

KEY POINTS TO LOOK FOR

High Resolution Colour

In general, most home computers have a poor graphics resolution for details. Check to see the vertical and horizontal resolution in graphics mode and multiply the two numbers together. If the result is less than 20,000, then the graphics can handle the enhanced high resolution. Without high-resolution graphics displayed, such as those used in games tend to be "chunky" in appearance.

High Quality Sound

Some computers claim to provide a sound channel when in reality either no real facilities inside the computer is a small speaker, or possibly electronic pulses. At the very least a sound facility should provide more than one channel and a real channel will give you the opportunity to expand. The basic circuit also provide multiple channels to produce very sophisticated effects very important for generating music. Also look for the facility to extend to external amplifiers.

Keyboard

For accurate entry of programs and data this is important! It is important that the keyboard has a good tactile feel in operation. Coupled with accurate feedback the user is fully aware when the computer has accepted the key stroke. Also of importance is a keyboard's layout. A standard computer keyboard layout will confuse the user with the wide majority of computers within the world of business and professional applications, very important if the purpose of purchasing a computer is educational.

RAM

One of the most important is status of a computer is the amount of RAM, or memory included. To generate the more powerful and writing a computer program is the more RAM it requires. Different computers for computers are often sold starting at least 64K and up to the system. Computers up to a game do not have the RAM for storing essential data and particularly in saving the graphics displayed and the CPU. It is likely that 32K starts up in a program.

Computer Language

It is difficult to program a computer in its own binary language so high level languages are used. The most popular is BASIC. However, there are a number of BASICs, some being very different from the rest. As it is often standard in the computer industry the word BASIC. Later editions and you will be able to program in the majority of computer BASICs, such as an emphasis point is a home computer is to be used to educate your children, face the technology of the future.

Expansion

As your interest and knowledge of computing grows, you will need a



Choosing the right system is a difficult task, with a growing range of micros, many in the home. It is important to check the quality of the product, and the price of the add-ons. Probably check the quality of the components and the price of the add-ons is a must.

computer system that will grow with you. Look at accessories: Printer, Disk drive, Joy stick, Communication cards, Modem, and Colour Monitor, as well as products like FI sound effects.

Software

The computer you choose should have a growing selection of utility

software to make the most of its capacity.

Remember when upgrading is time to stop. You can have a computer on a day, or a device which does not behave like a real computer. In short, look out for a computer which offers utility, power, speed, and you will be sure of getting the best value for money.

To find out which company offers you the right choice, with:-

- Good value, high specification, quality micros.
- A quality, 4 colour, plain paper printer/plotter.
- Communications Modem.
- Micro Disk Drives.
- Comprehensive and growing range of software.

TURNOVER... ➡



ONE COMMUNICATIONS MONTH

The Ohio Pharmacy Board, under its 2005 drug distribution regulation, requires all the Ohio's retail pharmacies to meet 2004 national NPI and NABP requirements for all the retail pharmacies.

1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Conclusion**
 6. **References**



ORIC 3 MICRO FLOPPY DISK REV. 11/81

[illegible][illegible]

ORJC MCP 40 COLOUR PRINTER/PLOTTER

The Dye Colour Printer is quality engineered to provide colour bar just printing it, as well as on fabric and fast colours, colour stability, and a wide range of applications.

from black and blue ink on the white sheet paper and the resulting color of the ink on the paper. The ink is a mixture of the two colors and the color of the ink on the paper is a mixture of the two colors.

These authors also reported a significant positive correlation between the two variables.

© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 105–112



OMC PRODUCTS INTERNATIONAL LTD. • 10000 111th Ave. • Richmond, BC V6V 1K1 • CANADA

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

A touch of class?

Two teachers test these teaching programs for the home and classroom too

Geography 48K Spectrum £6.50

Ernesti, The World is a Map, Woking, Surrey

Although it takes a full six months, at best, the program directly provides you with several pages of instructions on the way you should go with it.

At the end of leading you are awarded for your progress with a typical high-resolution aerial map of the world.

The educational program gives your knowledge of geography, particularly continents of the world, their capitals, the countries of the UK, and some of the world. Given a country, date or location, you have the program test a map to show you where it is. If you are a long, the program

gives you the correct answer.

There is a printed a learning mode to give you the 15 answers as far as you go to the map.

Initially the first questions of the class are around blocks of 10 questions, so it will take some time to learn all the answers.

Supports 48K version of the world. Europe and Great Britain are shown a well-defined coastline.

teachers, which give instructions on how the general knowledge questions may be changed.

An amazing step here for a program to be able to do even simple changes, but a regular feature of it is the basic learning system.

Teacher children of about seven needed minimal guidance and found it engaging. I also tested it at home with small groups of seven and 12 year olds, who collectively covered the first steps in about 45 minutes.

One complaint is that once the program is up and running, the program is very slow — a feature of the high-resolution mode. It is a good idea to have a low-resolution mode. (S) M. H.

instructions	90%
playability	90%
graphics	75%
value for money	95%

★ ★ ★ ★ ★

Junior Education Spectrum £7.50

Colson, Hill Homecare Woods Circus, 20 John, Woking, Surrey GU24 0LT

Eight good educationally based programs from an experienced company whose name is provide programs on software for the school sector. Consistently their programs go to the schools.

It would be impossible to describe all eight, so I will just mention them as — all very good, tested. They are: Draw, Hologram, Sketch, all different, think, Comprehension, Reading, and Spelling. Hologram really is a special mention as it is very nearly a full-length program on a 48K disk.

Most programs follow the same format of leading you step by step

correct answers and repeating it as the end of each correct answers must be.

Presentation is very good, the graphics are excellent colour and sound are well used, and all programs tested for value.

One of the programs can be tailored to suit the two programs and support. Comprehension and Spelling can be tailored to suit your own classroom-based activities.

The tape is supplied with a six page booklet which contains the instructions on how to use the program.

A valuable and useful pack for both school and home.

instructions	90%
playability	90%
graphics	70%
value for money	100%

★ ★ ★ ★ ★

Giant's Castle Dragon £5.95

Dragon Software, PO Box 4, Ashdown, Dorking GU24 0AQ

This is a fun adventure program for younger players who need to be able to read reasonably well, even work general knowledge questions, progress and a lot of learning. In fact this is the best of all adventures.

The game is full of surprises, both from graphics and its text. Learning is based on clues to make to reach the end of the game as you play. The clues, word and simple sentences provide an interesting mix that will give the children lots of fun.

High and low are used effectively in this 48K program which is certainly an achievement.

The program does contain a simple map and some extra

instructions	90%
playability	90%
graphics	75%
value for money	95%

★ ★ ★ ★ ★

Maths-Trek Dragon £5.95

Dragon Software, PO Box 4, Ashdown, Dorking GU24 0AQ

The correct educational aim is to help a player's progress in solving mathematical problems. It is a game of mathematics, meaning that the program has to involve the child in a different way.

This program is from one of the best of the best in software. It is a game of mathematics, meaning that the program has to involve the child in a different way.

Maths-Trek is a game of mathematics, meaning that the program has to involve the child in a different way. It is a game of mathematics, meaning that the program has to involve the child in a different way. It is a game of mathematics, meaning that the program has to involve the child in a different way.

and test their skills. There are also some of the best of the best in software.

There are also some of the best of the best in software. It is a game of mathematics, meaning that the program has to involve the child in a different way.

Maths-Trek is a game of mathematics, meaning that the program has to involve the child in a different way. It is a game of mathematics, meaning that the program has to involve the child in a different way.

instructions	90%
playability	90%
graphics	75%
value for money	95%

★ ★ ★ ★ ★

Midas Maze Dragon £5.95

Dragon Software, PO Box 4, Ashdown, Dorking GU24 0AQ

Designed as "An Exploration of the Maze" (Puzzle) there is an other quality to it as well as that it is a game of mathematics, meaning that the program has to involve the child in a different way.

Only the maze is used to solve, but if you get into a right corner you can place yourself in a different way.

On the first of it, that doesn't sound too promising, but there is a lot more to it.

Young children of about the primary stage may find it a bit of a challenge.

This is provided by the game. Midas Maze, though a challenge, is a game of mathematics, meaning that the program has to involve the child in a different way.

success, giving the program a game of mathematics, meaning that the program has to involve the child in a different way.

It is a game of mathematics, meaning that the program has to involve the child in a different way. It is a game of mathematics, meaning that the program has to involve the child in a different way.

For the players with a good sense of direction.

— I would want to happen to see this one in a play school.

instructions	90%
playability	90%
graphics	75%
value for money	100%

★ ★ ★ ★ ★

FOR JUST
£29.95+60p d.p.
YOU CAN PUT
IT IN PRINT!



You can connect a Sinclair ZX Printer to your BBC Computer by simply plugging the right PRINTFACE unit in your system giving you up to 43 characters line or 256 Full graphics

For MICROTAN
(ask for Printface 1)

For DRAGON 32
(ask for Printface 2)

For ATOM/ACORN
(ask for Printface 3)

For ORIC
(ask for Printface 4)

For BBC COMPUTER
(ask for Printface 5)

For VIC 20
(ask for Printface 6)

HOW TO ORDER: Please enter your requirements by postcard, enclosing your cheque or postal order (check payable to MICROTANIC COMPUTER, 59mmsd L10). Please allow 14 days for delivery.

MICROTANIC COMPUTER SYSTEMS LTD.
10 UPLAND RD OXFORD ON
LONDON W20 2DD
TEL: (01) 893 1137

Other Printface units available. Please state your system. Should you require further information on other software products please for information required in the design.

NAME _____
ADDRESS _____
POSTAL CODE _____
Please indicate your telephone area.

NAME _____

ADDRESS _____

POSTAL CODE _____

PLEASE ENTERFACE UNIT FOR YOUR COMPUTER SYSTEM

TEL (01) 893 1137

TEL (01) 893 1137

5 Christmas crackers from

Temptation

Software Limited

VIC 20 cheap ZIMAX

Another exciting software title downloaded in your pocket system. ZIMAX is a fast, powerful, and easy-to-use program which is designed to help you in your financial planning. It is a fast, powerful, and easy-to-use program which is designed to help you in your financial planning. It is a fast, powerful, and easy-to-use program which is designed to help you in your financial planning.

VIC 20 cheap ALAN WINTER

Another exciting software title downloaded in your pocket system. ALAN WINTER is a fast, powerful, and easy-to-use program which is designed to help you in your financial planning. It is a fast, powerful, and easy-to-use program which is designed to help you in your financial planning.

SINCLAIR ZX of VIC SPECTRUM FOR ADAMANT DEAF-ONE

Another exciting software title downloaded in your pocket system. SPECTRUM FOR ADAMANT DEAF-ONE is a fast, powerful, and easy-to-use program which is designed to help you in your financial planning. It is a fast, powerful, and easy-to-use program which is designed to help you in your financial planning.

VIC 20 - VIC

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

DRAGON 32

Programs are supplied
for
Commodore 64
Spectrum
Sin
Hebrew
Please See/Check
(07914 0005)

Each £5.95
or 14 days
credit and return
our office with
customer's name
Quitting order
for each game

For Temptation
Software Ltd
59mmsd L10
Apr 11, 1984

Name _____
ADDRESS _____
Postcode _____
City _____
Country _____
Telephone (Area) _____

ZIMBABWE MANUFACTURING COMPANY WITH
SUCCEFUL BOARD GAME SEEKS OUTLET TO
CONVERT THE GAME TO A COMPUTER PROGRAM
(SPECTRUM®) FOR A SIMULTANEOUS BOARD/
COMPUTER GAME '84 LAUNCH.

Sparrow and Sparrow Solicitors
30 Notting Hill Gate
London W11
01-737 3188 Ref GSG/Launch

[illegible][illegible]

Millen Computer Services Ltd
 10000 92 St. N. Unit 1000,
 Edmonton, Alberta T6C 2A2

ANDREW ARE COMPUTER SERVICES LTD
22 ROSEBURY ROAD - LONDON NW2 2LA
TEL: 0800 611 883

Copyright © 2004 by The McGraw-Hill Companies, Inc. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without prior written permission from The McGraw-Hill Companies, Inc. This publication is intended for use with the McGraw-Hill Companies' *Business Process Management* textbook. For more information, contact The McGraw-Hill Companies, Inc., 1221 Avenue of the Americas, New York, NY 10020-1346.

Year	1990	1995	2000
Population (millions)	1.2	1.5	1.8
GDP (billions of dollars)	0.5	1.0	1.5
Life expectancy (years)	55	65	75

THESE LOGS (JOURNALS) CONTAINING THE NAME, ADDRESS AND TELEPHONE OF THE PERSONS TO WHOM YOU HAVE REFERRED ARE KEPT IN THE OFFICE OF THE SECRETARY OF THE BOARD OF DIRECTORS OF THE NATIONAL ASSOCIATION OF REALTORS® FOR A PERIOD OF ONE YEAR.

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 103–110

**Staphylococcus aureus* with the highest frequency of methicillin resistance, found in 100% of cases examined were the isolates which were used (240 isolates/100%)

Copyright © 2004 John Wiley & Sons, Inc.

© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 103–110

For more information, contact the publisher or the nearest distributor of the book.

Abstract

111

If you have any trouble, or simply don't like mine, please contact: Rene.Moynihan@att.net

© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 105–112

1999

Don't let those snipers cross!

It's you against a whole platoon in David Nowotnik's Oric game — are you a good enough shot to defend the bridge?

The tale of snipers is often lonely and desperate.

Here you are, guarding a bridge by yourself, with a report that a highly trained platoon of enemy snipers may be heading your way.

And if they appear, then you have to hit and stop them once, by yourself!

But your sergeant said it was simple: that they'll go for the bridge, so you wait as well as take the opportunity for a wound.

Suddenly you hear a noise — could it be the enemy? Oh no, here they come!

In the game for the Oric modelled on Oric-1, you control the sniper appearing as a greater-than symbol on the left hand side of the screen.

You retreat on that side of the screen, moving up or down by pressing the cursor control keys in the left of the space bar.

The enemy soldiers (10 at a time) will travel across the bridge on the right hand side of the screen.

They cross one at a time, and have to get up the last of the screen to be fully across. You have to recognize, by firing (pressing the space bar) where you get them in your sights.

The bridge supports the back support as a cover for both you and the enemy. These soldiers are cautious, so if they see you, they will fire at you — and they don't miss!

All the other Oric-1 sound

effects are used as well when it happens. When you fire, you will hear BANG, and ZAP when you are fired at.

If you or the enemy soldier are hit, then you will hear EXPLODE.

If the enemy soldier makes a error on the left side, then you'll hear FANG, and the next soldier will walk across the bridge.

Now there 10 points for each enemy soldier you hit, but you will lose points if they get to the top of the screen, or if you are hit.

You may be wounded, or in a few cases, hit the line time and prove that Good luck, you'll do well to score more than 20.

Main variables

- A score position of your man
- B the position of the enemy soldier
- H indicates, equal 1 when he is hit, 0 otherwise
- I used in printing in the top row
- M the number of enemy soldiers left
- N the number of shots you have been wounded
- P holds the value of a keypress
- S a random number, either 0, 1, or 2, to move the enemy soldier
- W the score
- X(1) used in place of a leader appearing in the top row when firing
- X(2) used to print the display, and the top line

How it works

10-1000 initialize the variables and print the title
110-120 print the screen once
130-140 calculate 10 points for hit and score in the top line (print) row of the screen
150-160 check for correct key or space bar (print, score move up or down, or shoot, or display score)
170-180 (shoot) update screen
Check the hit in line 120
190-200 update pointers, limited checks of hit is "over" line 470
Check if the key is hit through
210-220 the enemy soldier. Done is you
230-240 compare (score) to give FANG, and update the score
250-260 score moves
1000-1010 check for end of the game

```

10 REM  This shall run game
20 REM  By David Nowotnik
30 REM  August, 1983
40 REM
50 REM  Initialization
60 REM
70 FORWARD, 10
80 FORWARD, 10
90 FORWARD, 10
100 FORWARD, 10
110 FORWARD, 10
120 FORWARD, 10
130 FORWARD, 10
140 FORWARD, 10
150 FORWARD, 10
160 FORWARD, 10
170 FORWARD, 10
180 FORWARD, 10
190 FORWARD, 10
200 FORWARD, 10
210 FORWARD, 10
220 FORWARD, 10
230 FORWARD, 10
240 FORWARD, 10
250 FORWARD, 10
260 FORWARD, 10
270 FORWARD, 10
280 FORWARD, 10
290 FORWARD, 10
300 FORWARD, 10
310 FORWARD, 10
320 FORWARD, 10
330 FORWARD, 10
340 FORWARD, 10
350 FORWARD, 10
360 FORWARD, 10
370 FORWARD, 10
380 FORWARD, 10
390 FORWARD, 10
400 FORWARD, 10
410 FORWARD, 10
420 FORWARD, 10
430 FORWARD, 10
440 FORWARD, 10
450 FORWARD, 10
460 FORWARD, 10
470 FORWARD, 10
480 FORWARD, 10
490 FORWARD, 10
500 FORWARD, 10
510 FORWARD, 10
520 FORWARD, 10
530 FORWARD, 10
540 FORWARD, 10
550 FORWARD, 10
560 FORWARD, 10
570 FORWARD, 10
580 FORWARD, 10
590 FORWARD, 10
600 FORWARD, 10
610 FORWARD, 10
620 FORWARD, 10
630 FORWARD, 10
640 FORWARD, 10
650 FORWARD, 10
660 FORWARD, 10
670 FORWARD, 10
680 FORWARD, 10
690 FORWARD, 10
700 FORWARD, 10
710 FORWARD, 10
720 FORWARD, 10
730 FORWARD, 10
740 FORWARD, 10
750 FORWARD, 10
760 FORWARD, 10
770 FORWARD, 10
780 FORWARD, 10
790 FORWARD, 10
800 FORWARD, 10
810 FORWARD, 10
820 FORWARD, 10
830 FORWARD, 10
840 FORWARD, 10
850 FORWARD, 10
860 FORWARD, 10
870 FORWARD, 10
880 FORWARD, 10
890 FORWARD, 10
900 FORWARD, 10
910 FORWARD, 10
920 FORWARD, 10
930 FORWARD, 10
940 FORWARD, 10
950 FORWARD, 10
960 FORWARD, 10
970 FORWARD, 10
980 FORWARD, 10
990 FORWARD, 10
1000 FORWARD, 10

```

```

1000 REM  This shall run game
1010 REM  By David Nowotnik
1020 REM  August, 1983
1030 REM
1040 REM  Initialization
1050 REM
1060 FORWARD, 10
1070 FORWARD, 10
1080 FORWARD, 10
1090 FORWARD, 10
1100 FORWARD, 10
1110 FORWARD, 10
1120 FORWARD, 10
1130 FORWARD, 10
1140 FORWARD, 10
1150 FORWARD, 10
1160 FORWARD, 10
1170 FORWARD, 10
1180 FORWARD, 10
1190 FORWARD, 10
1200 FORWARD, 10
1210 FORWARD, 10
1220 FORWARD, 10
1230 FORWARD, 10
1240 FORWARD, 10
1250 FORWARD, 10
1260 FORWARD, 10
1270 FORWARD, 10
1280 FORWARD, 10
1290 FORWARD, 10
1300 FORWARD, 10
1310 FORWARD, 10
1320 FORWARD, 10
1330 FORWARD, 10
1340 FORWARD, 10
1350 FORWARD, 10
1360 FORWARD, 10
1370 FORWARD, 10
1380 FORWARD, 10
1390 FORWARD, 10
1400 FORWARD, 10
1410 FORWARD, 10
1420 FORWARD, 10
1430 FORWARD, 10
1440 FORWARD, 10
1450 FORWARD, 10
1460 FORWARD, 10
1470 FORWARD, 10
1480 FORWARD, 10
1490 FORWARD, 10
1500 FORWARD, 10
1510 FORWARD, 10
1520 FORWARD, 10
1530 FORWARD, 10
1540 FORWARD, 10
1550 FORWARD, 10
1560 FORWARD, 10
1570 FORWARD, 10
1580 FORWARD, 10
1590 FORWARD, 10
1600 FORWARD, 10
1610 FORWARD, 10
1620 FORWARD, 10
1630 FORWARD, 10
1640 FORWARD, 10
1650 FORWARD, 10
1660 FORWARD, 10
1670 FORWARD, 10
1680 FORWARD, 10
1690 FORWARD, 10
1700 FORWARD, 10
1710 FORWARD, 10
1720 FORWARD, 10
1730 FORWARD, 10
1740 FORWARD, 10
1750 FORWARD, 10
1760 FORWARD, 10
1770 FORWARD, 10
1780 FORWARD, 10
1790 FORWARD, 10
1800 FORWARD, 10
1810 FORWARD, 10
1820 FORWARD, 10
1830 FORWARD, 10
1840 FORWARD, 10
1850 FORWARD, 10
1860 FORWARD, 10
1870 FORWARD, 10
1880 FORWARD, 10
1890 FORWARD, 10
1900 FORWARD, 10
1910 FORWARD, 10
1920 FORWARD, 10
1930 FORWARD, 10
1940 FORWARD, 10
1950 FORWARD, 10
1960 FORWARD, 10
1970 FORWARD, 10
1980 FORWARD, 10
1990 FORWARD, 10
2000 FORWARD, 10

```

How can I crash-proof my Spectrum?

I have been very impressed at recent work by the increasing number of high quality, coordinated publications in your magazine. I forward this producing simple, clean, polished page for very appealing for customer owners.

I was excited to read Ray Fisher's article from NCWJ and Cybersociology, your JNLI. I also own a bookstore and would gladly read a copy of the article applied to that medium.

Play Diller replied: "I'm sorry to hear you enjoyed the article. The game is complete, and I've redesigned the LCR over the course of the Spectrum with a few modifications, and I'm at writing a short piece on www.mindglobe.com about it."

**Make up
your mind.**

I was looking through my book closet at 80/90 the other day, in the binders for my VIC-20 programs that had caused my strong eye, when I noticed some thing that struck me as

In about 20 years was a Specimen program. So when I saw you say "Well, it was the one where you had to pretend a city looks a disasterous Rust Region." In the following year you had another Specimen program. This time you had to think a city that wasn't quite overpopulation.

Andrew Blanton, Walton,
West Virginia

**How many
micro's
will you**

With the large increase in variety of brand computers over the last year, the Academy 2.0 Computer Club has decided to drop the "2.0" from its name, to make for all changes and improvements.

As the news unfolded, water leaks in the area, the Aphelion group have found that despite the fact it was primarily a Secher gas leak, some of those

Send your letter to Letters, Home Computing Weekly, 145 Charing Cross Road, London WC2H 0EE. Don't forget to name your computer — the best letter could win £5-worth of software. Got a problem with your micro? We'll soon be starting a queries page, so send your technical questions to Queries at the above address



system when the 200 sample
largest nodes are in the
system

While the estimate "20% more dropped from the average, the club has formed" lead the interview to 100 contacts and future community

The club will encourage its hold weekly meetings at Queensland School (each Friday at 7.30pm) and quarterly meetings at the Queensland Centre.

Further information on the authors, offered by the club and its activities can be obtained from myself, on Application #120642.

Please consider your listing these changes to the association and board members.

Received: 12 November 2014
 Accepted: 12 November 2014
 Published: 13 November 2014

Fair deal for Continuum?

When I read your report on Cyril Ruse and Ponnau on HNL 7670, I could not believe that you were willing about any company.

For God, then, you must
 that "little death" understand
 as that nothing should be
 forever from the world.

It is a staffed game in which you have to place strategically obscuring characters such as royal lions destroyed. The game is, to be frankly honest, in the highest levels, a fact that I think you understand.

In *Pontoon*, you start out with "four challenges." The game strictly adheres to the same laws of chance as the card game. Am I impressed that the card game *Pontoon* also has "four challenges"? 

I have been told by many of our customers that the graphics are amazing; for how they have gone for the spectrum, and how much they enjoyed the guide, which naturally appears in a different manner from Space to other products.

Maybe I suggest that when reviewing games in the future you look them throughly, as sometimes there are a couple of bugs.

person are more likely to believe what he's spent months working on. These games begin with a picture which will be considered by many of your readers as normal.

[illegible]

"But for Florence, I did say to my mother that the questions were good, but I didn't think that card game brought with it anything — most of the time it brings my mind and reads against and against it, but as I'm concerned it kind of my imagination — those things, the same."

**Cry from
the heart**

These events are a very little
the same from the moment of a
comparative study. And
some of them?

The years have caught
me, left me behind.
The new technology
boggles my mind.
My quest for knowledge
is a hind.

Wiederholungsfragen, abgesehen von
technischen Fragen

**Cooperative and voluntary
and financial services provided.**

[illegible]

1. *Journal of the American Medical Association*, 1997; 277: 103-107.
 2. *Journal of the American Medical Association*, 1997; 277: 108-112.
 3. *Journal of the American Medical Association*, 1997; 277: 113-117.

Agua y más... ¡prometidos por
el primer de la zona!
www.1000000.com

Family Fortunes

In recent weeks, I have noticed that people have taken an interest in cleaning their high seats on various open-poor games, so I thought I would tell you about

Our family had a TV, radio, my high school car, Project in Kid (TM) which costs me 15 hours. My sister was still while I, as a student.

Also, my client has
switched his way up to
200 MHz Modemman. Can
my TI carrier host these
nodes?
Archie Feldman, Harvi-
gate, South York

HERE COMES HORACE!

Just when you thought electronic games had nothing more to offer, here comes Horace!

It has been said that Horace games are in a class of their own. Indeed, Horace is almost a legend.

Horace is a cute, friendly, animated character who races through adventures, crawling back whenever he gets, and the great news is that Horace games are now available for most all the computers.

When he was first introduced to computer operators in the game "Rugby Horace" he immediately became a hit. Rugby, allowing the fans of Horace to sit "computer" horses. Now you can enjoy the fun, exciting adventures of Horace.

The Horace series of games brings you a whole new world of exciting games and characters into the world of Horace. For only £1.25 per cassette.



HORACE IS BACK!

This rugged Horace is braver. Horace's team have to be the park as he sits in the forest, among the guards, and under their hands.

Finally, the story, but greater.

HORACE'S NEW TOYS!

Now there's always a winner in the world of all the most fun in the world. Horace is back with a job of his. He has to find the hidden treasure, to reach the end. Making it possible with some steps, some new things. To reach the end of the world.

HORACE'S NEW TOYS!

Horace is back in the world of the world of all the most fun in the world. Horace is back with a job of his. He has to find the hidden treasure, to reach the end. Making it possible with some steps, some new things. To reach the end of the world.



MELBOURNE HOUSE



Melbourne House Publishers

Spectrum

Look up the best of the best games and enjoy them from the comfort of your own home. (Spectrum House and Melb House are the best of the best.)

Commodore 64

Commodore 64 is the best of the best. Commodore 64 is the best of the best. Commodore 64 is the best of the best.

Dragon 32

Dragon 32 is the best of the best. Dragon 32 is the best of the best. Dragon 32 is the best of the best.

All prices include VAT when applicable. Please call 011 for more info.

Order to:
Melbourne House
111 Trafalgar Road
Canterbury, London SE2 8JH

Correspondence to:
Melbourne House
111 Trafalgar Road
Canterbury

Trade enquiries welcome



All Melbourne House products are published by Melbourne House. All products are published by Melbourne House. All products are published by Melbourne House.

I am ordering a quantity order for £

My order is for £

My order is for £

My order is for £

My order is for £

My order is for £

Special Mission TI-99/4A (Extended BASIC) £5.95

Templeton Software, 27 Ovington Road, Kent, TN11 9JN

Special Mission is a hard-soft ad-venture game set in an industrial complex. Your task is both to discover and deconstruct the structure of your mission by solving conundrums.

The computer can understand variations of up to five letters in length, although this may sometimes result in a message 'full error', a small graphical pane adequately described in the instructions.

Exploring the complex is achieved by going back and forth, but how often and for how long is to be decided.

Various objects are all similar, to be found with which you can get clues to different parts of the complex, including a virus which which not only has the interesting habit of playing on your feelings, but which is 'happier' on TI-99.

The set up of the adventure is the same each time that is to mean that your progress depends on having obtained various objects and disposed of others in its progress plan.

Since there is no option to SAVE, when you have reached a certain point, therefore the software solution in the software is difficult to achieve. Perhaps perhaps for the more experienced player.

graphics	90%
playability	85%
graphics	85%
value for money	75%

★★★★

Master Chess 48K Spectrum £6.95

Melospin, 24 Agate Crescent, Boreham, Essex

Program of this complexity never used to exist on a 48k computer, these programs are

therefore less informative value.

Good graphics (all levels of play) appears to be up to par, graphics, chess-related stuff, from the computer where you go to play, and a check on money to see how close you are to the last of the game is a welcome addition.

The program is really what you need, which is not well when it is played. (I don't see for example)

Castle Adventure Dragon £5.95

Verge Games, 31-41 Portobello Road, London W11 3BD

An adventure game which is a 48k, it is not found on an old computer.

As the hero, your quest is to rescue the wife of Geronimo and to return to the glory of the adventure, which is where the game begins.

There are more than 120 locations and over 100 objects to be found, so the game doesn't get lost at all in the world of the game.

Several clues are scattered on the map, which also tells you what you can do in the area. After that, you are on your own to discover what you can do.

At the end of the game, the game is over.

There are more than 120 locations and over 100 objects to be found, so the game doesn't get lost at all in the world of the game.

Several clues are scattered on the map, which also tells you what you can do in the area. After that, you are on your own to discover what you can do.

At the end of the game, the game is over.

At the end of the game, the game is over.

graphics	90%
playability	85%
graphics	85%
value for money	75%

★★★★

Lojix 48K Spectrum £5.95

Verge Games, 31-41 Portobello Road, London W11

This is a puzzle program which will appeal to all those who can do the Rubik cube without thinking.

Even though it is a 48k game, it is not found on an old computer.

Even though it is a 48k game, it is not found on an old computer.

On loading, the screen displays a set of colored squares in the top left corner, a 10 by 10 grid below them and a set of regular shapes on the right side of the screen.

Each of these shapes can be moved and the object of the game is to place all of them on the grid, like a puzzle.

At the end of the game, the game is over.

It's the thought that counts...

...With these games of logic and strategy, Our reviewers give their verdicts

Even if it's surprising to see the computer's reasoning made more and more like a human mind.

I'm not sure how a Global Master would react to the program, but for anyone who wants to play a game, it's a good idea to play a game.

You don't need a good mind, you can be a good mind, you can be a good mind, you can be a good mind.

So what, you can get some help.

A superb example of a real system on a 48k computer. A real system on a 48k computer.

graphics	90%
playability	85%
graphics	85%
value for money	75%

★★★★

Global Rescue TI-99/4A (Extended BASIC) £7

Building Software, 15 Alden Road, Brighton, Chichester BN1 3AP

The path is the only way to go, the path is the only way to go, the path is the only way to go, the path is the only way to go.

The screen displays a world map, the screen displays a world map, the screen displays a world map, the screen displays a world map.

At the end of the game, the game is over.

A world map and a world map, a world map and a world map, a world map and a world map, a world map and a world map.

The path is the only way to go, the path is the only way to go, the path is the only way to go, the path is the only way to go.

At the end of the game, the game is over.

At the end of the game, the game is over.

graphics	90%
playability	85%
graphics	85%
value for money	75%

★★★★

the options you could enter are added and are then, so the program is not as simple as it seems.

It's not easy to see the path, but it's not easy to see the path, but it's not easy to see the path, but it's not easy to see the path.

At the end of the game, the game is over.

At the end of the game, the game is over.

graphics	90%
playability	85%
graphics	85%
value for money	75%

★★★★

I wrote this program to teach myself how to use PLOT and DRAW — a drawing program, straighten and circles of any size, anywhere on the screen.

When you run the program, instructions and a menu will be shown. After choosing and drawing your shape, you can choose another one.

The screen shows a choice between shapes, but it will give it you add 101 KLS to the listing. You may also find useful some a panel, pad to help you change the shapes.

By adding colors, a font and questions about the shapes, you could expand the basic idea into a useful educational program for children.

While reading shape at 13 of the Sinclair manuals, I found that a useful but necessary instruction had been left out, which would be confusing for newcomers to computing.

The manual doesn't tell you that when you draw, command number is now 0-9 (instead of the panel graph). So P1:10 50,50 100,100 36,8 000,0 0,36 100,0 30,0 100,0 0-36 will draw 10 squares.

Get your Spectrum into shape

Learning to use the PLOT and DRAW commands? Joan Rollason wrote this short program to help you

How it works

20-40 lines up vertically
70-80 rows across and down
100-110 rows down
100-110 rows and down across
100-110 rows and down across
100-110 rows and down across
100-110 rows and down across

Main variables

x=0-110
y=0-110
x=0-110
y=0-110
These variables are for panel positions, length of sides and radius, distance, etc.



```

10 REM J.Rollason June 1983
20 REM squares, triangles, circle
30 FOR u=0 TO 179
40 FOR a=0 TO 359
50 FOR x=0 TO 100
60 FOR y=0 TO 100
70 GO TO 100
80 REM AT 0,0 This program
90 enables you to draw squares, tri-
100 angles and circles any size and
110 to position on the screen. The
120 position is given for is the
130 left hand corner of 0,0 to
140 100,100 in the screen. There are
150 100 lines to draw. There are
160 100 lines to draw. There are
170 100 lines to draw. There are
180 100 lines to draw. There are
190 100 lines to draw. There are
200 100 lines to draw. There are
210 100 lines to draw. There are
220 100 lines to draw. There are
230 100 lines to draw. There are
240 100 lines to draw. There are
250 100 lines to draw. There are
260 100 lines to draw. There are
270 100 lines to draw. There are
280 100 lines to draw. There are
290 100 lines to draw. There are
300 100 lines to draw. There are
310 100 lines to draw. There are
320 100 lines to draw. There are
330 100 lines to draw. There are
340 100 lines to draw. There are
350 100 lines to draw. There are
360 100 lines to draw. There are
370 100 lines to draw. There are
380 100 lines to draw. There are
390 100 lines to draw. There are
400 100 lines to draw. There are
410 100 lines to draw. There are
420 100 lines to draw. There are
430 100 lines to draw. There are
440 100 lines to draw. There are
450 100 lines to draw. There are
460 100 lines to draw. There are
470 100 lines to draw. There are
480 100 lines to draw. There are
490 100 lines to draw. There are
500 100 lines to draw. There are
510 100 lines to draw. There are
520 100 lines to draw. There are
530 100 lines to draw. There are
540 100 lines to draw. There are
550 100 lines to draw. There are
560 100 lines to draw. There are
570 100 lines to draw. There are
580 100 lines to draw. There are
590 100 lines to draw. There are
600 100 lines to draw. There are
610 100 lines to draw. There are
620 100 lines to draw. There are
630 100 lines to draw. There are
640 100 lines to draw. There are
650 100 lines to draw. There are
660 100 lines to draw. There are
670 100 lines to draw. There are
680 100 lines to draw. There are
690 100 lines to draw. There are
700 100 lines to draw. There are
710 100 lines to draw. There are
720 100 lines to draw. There are
730 100 lines to draw. There are
740 100 lines to draw. There are
750 100 lines to draw. There are
760 100 lines to draw. There are
770 100 lines to draw. There are
780 100 lines to draw. There are
790 100 lines to draw. There are
800 100 lines to draw. There are
810 100 lines to draw. There are
820 100 lines to draw. There are
830 100 lines to draw. There are
840 100 lines to draw. There are
850 100 lines to draw. There are
860 100 lines to draw. There are
870 100 lines to draw. There are
880 100 lines to draw. There are
890 100 lines to draw. There are
900 100 lines to draw. There are
910 100 lines to draw. There are
920 100 lines to draw. There are
930 100 lines to draw. There are
940 100 lines to draw. There are
950 100 lines to draw. There are
960 100 lines to draw. There are
970 100 lines to draw. There are
980 100 lines to draw. There are
990 100 lines to draw. There are
1000 100 lines to draw. There are

```

Micro Tip

In command Spectrum

When Screen 3 Spectrum made problems with creating software, I have to say solution — provided that the program is written in BASIC.

For example, for the following line
PRINT IN 1000,000 10
will give the result 10 with Screen 1 and 1000000 and 100 with Screen 3 machine.

On each command that in IN command is typed, a preceding CMT command will give the data on by the I/O. For example
CMT 1000,000 PRINT IN 1000,000 10
will give 1000 with both mode 1, 2 and 3 machines.

So the solution is quite simple — provide any IN command with an CMT 2,250 command, and any BASIC program will work on any Spectrum
W. Smith

Micro Tip

Verify your Dragon

One of the main problems on the Dragon is the lack of VERIFY command. It is most infuriating to have typed in and CSAVed a long program, only to find that it has been lost on CLASH with an LVD-active business in the last SAVEd.

A way to overcome this problem is to CSAV "PROG", re-read the tape then type SAV "PROG" and enter. The micro will then search through the program to the end of "PROG".

If the latter then you can make the necessary adjustments to which you are experimenting with different recording levels etc. Your program remains in the computer's memory intact.

A. Lee-Bosley

NOGUL

THE HOTWARE PEOPLE

METAMORPHOSIS

VIC 20 - COMMODORE 64
The latest addition to the series of the
Cygnusware. This is a great flying hit
the World of Gork.

£3.95

BOINGO KING

VIC 20 - COMMODORE 64
Crazy Golfers, don't like the game
shown in the Game Spot, this is the
version.

£3.95

ZEUS

VIC 20 - COMMODORE 64
This Game, VIC 20 and Commodore 64
can use the Zeus II and III. It's the
Thunderbolt, it's the way, it's the
Zeus.

£3.95

EARTHQUAKE

VIC 20 - COMMODORE 64
A great adventure game and
thrilling community game. It's
quick. It's over in about 10 minutes.
It's the story.

£3.95

CREATORS REVENGE

VIC 20 - COMMODORE 64
Representing the 10th Anniversary
of the Code, it's the way the
world that we live in for new ideas
as they evolve.

£3.95

SUPER TREK

VIC 20 - COMMODORE 64 - £10.00
It's a great game, it's the way the
world that we live in for new ideas
as they evolve.

£3.95

ANNIHILATOR

VIC 20 - COMMODORE 64
Defend your planet against invading
aliens. Put machine code in the
fast and furious arcade action.

£5.99

PYRAMID

VIC 20 - COMMODORE 64
It's the way
A really great adventure game in you
or against the pyramid. However
the balance is in the club.

£3.95

POLYWOG

VIC 20 - COMMODORE 64
This is a great game to
play with friends.

£3.95

ANNIHILATOR 2

VIC 20 - COMMODORE 64
This is a great game to
play with friends.

£3.95

GREAT ADVENTURE PACK

VIC 20 - COMMODORE 64
This is a great game to
play with friends.

£3.95

PLUS

Plus Great Games For the Spectrum 4.8

POTTY PLANTER - ADDER ATTACK - LAS VEGAS LADY - CRASH

All at £3.95

AVAILABLE FROM ALL GOOD DEALERS
TRADE ENQUIRIES WELCOME

NOGUL COMMUNICATIONS LIMITED - 5 WILKENT STREET - LONDON W2 1SP
Tel: 01-834 4071

GALAXY

Number One For Texas TI99/4A

LOOK NEW LOW PRICES

Masterdisk	£19.95	Speech Editor	£ 14.95
Extended Basic	29.95	Editor/Assembler	34.95
Chess	28.48	Diagram Mkr	30.95
Adventure/Thriller	14.99	Address Address	99.95
All Adventures	5.95	Mini Memory	29.95
Speech Synthesizer	94.95	Music Maker	14.95
Terminal of Doom	14.95	Invaders	14.95
Terminal Emulator	29.95	Paradise	19.95
Touch Typing Tutor	29.95	Alphabet	19.95
Source	5.50	525 K RAM Card (Texas)	59.95

War Magazine is available including back issues

LANTERN CASSETTE SOFTWARE

Bedroom Attack	19.95	Blasphemy	13.95
Operation Moon	4.95	Character Generator	9.95
Synthesizer	6.95	Acron Station	9.95
Planet Drive	5.95	Hydro Back	9.95
Droids Hot Rod	3.95	Trail King	4.95

Larger range of Books now available for TI-99/4A

COLLECT AND ATARI OWNERS

Check our Prices for your

Game Cartridge requirements

Remember! There are no extra charges at Galaxy

All prices include VAT and postage. Send SAE for full list. Send cheque, with order or please call us (Birmingham or Aston).

NEW

TI-99/4A a new publication with programs, games, competitions, news, software prices £4.95 p.a.

60 High Street, Middlesbrough

Telephone: (0412) 64 2375 & 679385



A. S. N. COMPUTER SERVICES LIMITED

ANNOUNCE

Top USA Software at Discount Prices
At least 20% Discount from Top Selling US Software

Just Look at These:

	RRP	A.S.N.
Adrian - Darnett - Alan	35.00	25.00
Amyston - Epps - Alan (1984)	31.00	25.00
Minor 2491.R - Big Price - Alan	41.70	30.00
Temple of Apollo - Epps - Alan		
Clash, IBM	31.00	25.00
Don't Let It In - Interview - Alan		
CRAB, IBM	31.00	25.00 (cash)

All Prices include VAT and Post & Packing is Free (UK mainland only). This is just a selection. We have over 300 Games/Utilities/Educational and Business programmes to choose from. To obtain up to the minute list, for any programme, telephone our Hot Line — 07842 27599

(Expert Orders Welcome)

Send all orders with cheque P.O. etc. to:

A.S.N. COMPUTER SERVICES LTD,
Dept. H.C.W., 89 Station Crescent,
Ashford, Middlesex.

Nearly 700 Programmes
IN STOCK
Ring for our Price List

CLWYD PERSONAL COMPUTERS

Unit 19, Daniel Owen Precinct, Mold, Chf. 14P
Telephone: Mold 56842



400 inc BASIC £115

800 £290

48K Lynx £215

COMMODORE 64 £225

ORIC 1 48K £139.99p

Phone Orders Welcome on 0352-56842

Postage & Packaging FREE

NEXT DAY DELIVERY A VALUABLE Pre-Order ring for details

1 unique design/PCD for £

or please debit my Access Card No

NAME _____

ADDRESS _____

Silverline

SILVERLINE LTD, 124 Morgan Road, Wrexham, Cheshire
Wrexham, Cheshire, Wrexham, Cheshire

NEW



WATER DIET PLANNER 48K Spectrum £11.95
This software is the first of its kind. It is a diet planner which allows you to plan your diet for the next 14 days. It includes a list of 1000 foods and their nutritional values. It also includes a list of 100 recipes and their nutritional values. It is a very useful program for anyone who is interested in diet and health.

ENLIGHTENED 48K Spectrum £9.95
A new and highly innovative program for the 48K Spectrum. It is a program which allows you to plan your diet for the next 14 days. It includes a list of 1000 foods and their nutritional values. It also includes a list of 100 recipes and their nutritional values. It is a very useful program for anyone who is interested in diet and health.

TOWNTEST 48K Spectrum £9.95
A very useful test for testing Geography in primary schools. The program tests pupils' knowledge of the locations of major towns and cities in England, Scotland and Wales. Well informed users will find this a very useful test.

BOGALOVY 48K Spectrum £29.95
A book of programs using the integrated graphics capabilities of the Spectrum. It includes a list of 100 programs and their nutritional values. It also includes a list of 100 recipes and their nutritional values. It is a very useful program for anyone who is interested in diet and health.

ALL PRICES INCLUDE POST & PACKING & VAT

ARE YOU GETTING ENOUGH

FROM YOUR DRAGON?

ONE OF THE MOST VERSATILE DATA HANDLING PROGRAMS EVER PRODUCED IS NOW AVAILABLE FOR THE DRAGON.

THE NEWLINE DATAFILE

FOR DOS

- VARIABLE NUMBER OF FIELDS AND FIELD LENGTHS
- DIFFERENTIAL MULTI COLUMN RANGE
- SEARCHING & TOTALLING
- INTEGRATED ALPHA/NUMERIC SORT
- MULTIPLE FIELD SEARCHING
- SEARCHING & TOTALLING
- FULL FONT FACILITIES

This flexible all-purpose program allows even beginners to create systems to suit their own applications — FOR ONLY £24.95 (TAPE VERSION)

Available on cassette & disc. Also available for other computers S.A.S. in full range of disks at other prices available on company letters

Please send me DATAFILE
pkg PRG (1k, 256k)

PHONE (0402) 71499 44/750
OR 02081 84411 FROM 1.45

CASH/TELE

CHEQUE/TELE

Send to:

DEALON BBC

DEALON VET

CHRYSLER COMPUTERS &

DEALON BBC

DEALON VET

301 WILKINSON ST., TRADING, AN.

0207 607 1541 025

Name

Address

WILEY

THE

MEGA RUN

... is coming

T199/4A SOFTWARE

PILOT

£5.95

A quick fire flight simulation game for the unrepentant T199/4A. Graphics display of landing sites and terrain maps, plus updated maintenance panel. Operations for take off, landing or in flight. Full manual plus included. Graphics on board.

TEXAS PROGRAM BOOK

£5.95

31 programs for the unrepentant T199/4A, including 133 Main, Laser, Launch, Catapult, Home Run, Bomber, Moral Code, Arithmetic, Also Attack, Organ, Evacuate and many more.

Send cheque or P.O. or telephone with Access. Enclosed for immediate dispatch. Please add 50p p.p. on orders under £7. Cash on order £7 plus 10p.



APEX SOFTWARE

Series Cottage, Hastings Road.

St. Leonards-on-Sea, TN38 8LA

Tel: Hastings (0434) 83383



CHRISTINE COMPUTING

- Compatible cassette recorder £24.95
- Single cassette interface lead £4.35
- Dual cassette interface lead £5.45
- Recorder + single lead £28.75
- Recorder + dual lead £29.75
- 32K Stand alone Ram £115

- Software Cartridge — Extended Basic £51.50
- Minimemory £31.50
- Chess £29.50
- Parsec £29.50
- Invaders £19.00

Software Tape — Corel, Blast II, Spudz, Code Break/3D Maze, U.F.O. all @ £4.95 each.

All prices inclusive, send 30p (refundable on 1st order) for full list. Cheques or PO's ok.

SEE US AT THE YOUR COMPUTER & HAS FAIR
OCC. 1984 - 1985



Texas T199/4A



APRIL 11 (EXT) (BASIC) £4.95

Space war! Defend your ship from attacking aliens. Battle your way to Angel's land, you must blast out attacking ships. Destroy them from ship through treacherous mine fields. Laser cannon. Invasion bombs. Space war! This game has the lot.

FINALL - COUNTS (EXT) (BASIC) £4.95

Two games on one tape. A realistic golf machine. Another realistic one of the last thing. Cubes. A test of skill and memory for those who like a challenge.

TOMMYT (BASIC) (BASIC) £4.95

A maze with a difference. Hidden letters and openings. Can you find them? Shows the deadly results of procrastination. In for a penny, in for a pound. Send for your copy of the T199/4A software.

Send cheque or P.O. to United Games. Order's post free. 14 Bridgwood, Brookside, TELFORD, Shropshire TF3 1LX.



KARMA SOFTWARE PRESENTS....

PONTOON - YHATZI

FOR VIC 20 PLUS MIN OF 3k EXP

INCLUDING VAT & P & P ONLY £4.50

FREE GAMES TAPES WITH EACH ORDER UNTIL CHRISTMAS

CHECKS & PO'S TO
TM COMPONENTS, 118a HIGH STREET,
SOUTHEND-ON-SEA, ESSEX S81 1LH

Battle Tanks TI-99/4A £5

Software Software, 10 Aldine Road, Swanton, Cheshire SA4 1AH

This is a two-player game for those with a ballcock motor.

You each have three tanks and the aim is to destroy your opponent's hardware.

Whether you and your opponent landed in a corner of walls, which you can neither attack with your shells - or up to three walls before your tanks' fuel runs and you are forced to retreat.

Control of your respective tanks is through either the split-keyboard or the popular coin-bill button, situated centrally. So it would seem that the player who can keep his/her finger on the button's centre more easily might eventually be the victor.

The choice is not made clear in the instructions, but is accepted in the control relay.

The program does indeed try to make sure that the (modified) algorithm lay a diagram before you, contrary to the.

The graphics are too simple and the instructions are printed slowly, but luckily neither have to hinder your tank's movement.

With a 100% algorithm, no children's brains for adults, and really some something to spend it on at odds to make a world in price tag.

100%
100%
100%
100%



Tank Battle TI-99/4A (Extended BASIC plus Joystick) £5.95

Software Software, 20 Essex Park, Essex, Nym, Essex

Make two, 100% (extended) to being from "moving" to "dropping" you may wish to imagine that with Tank Battle you're in it for a rough time.

Each tank appears in random locations (top, right and left) of the tank's "living" point, and a "bullet" of the same point is to be fired from it. It is a good idea to use the joystick of the tank's "bullet" of the same point is to be fired from it.

Take on your Texas

Your TI-99/4A takes on a variety of hostile forms in these action games, rated for you by our review panel

with their shooting, your TI-99/4A

has been only about five with which to do so. These instructions are intended to give you a range of "top" to "bottom" of the upper half of the tank, to some two minutes and judgment are required to keep the tank's "bullet" of the same point is to be fired from it.

There are also features to make your play, in a "living" point, and a "bullet" of the same point is to be fired from it.

and 100% (extended)

With features, there are a small number of "top" to "bottom" of the upper half of the tank, to some two minutes and judgment are required to keep the tank's "bullet" of the same point is to be fired from it.

100%
100%
100%
100%



Lunar Base/ Torpedo Fire TI-99/4A £7

Software Software, 10 Aldine Road, Swanton, Cheshire SA4 1AH

Control the safety of the mother ship, you must make your lunar pool through the "torpedo" fire to a "bullet" of the same point is to be fired from it.

On the 100% (extended) BASIC plus Joystick, you may wish to imagine that with Tank Battle you're in it for a rough time.

With a 100% algorithm, no children's brains for adults, and really some something to spend it on at odds to make a world in price tag.

Unfortunately, there is one bug in the "bullet" of the same point is to be fired from it.

CONTROL SHOOTING IN 100% (extended) BASIC plus Joystick

Torpedo Fire, you must make your lunar pool through the "torpedo" fire to a "bullet" of the same point is to be fired from it.

On the 100% (extended) BASIC plus Joystick, you may wish to imagine that with Tank Battle you're in it for a rough time.

With a 100% algorithm, no children's brains for adults, and really some something to spend it on at odds to make a world in price tag.

100%
100%
100%
100%



Space Rescue 2.0 TI-99/4A (Extended BASIC) £11

Software Software, 10 Aldine Road, Swanton, Cheshire SA4 1AH

The instructions in Space Rescue 2.0 give a full description of the game, which is in the 100% (extended) BASIC plus Joystick.

In Space Rescue 2.0, you may wish to imagine that with Tank Battle you're in it for a rough time.

With a 100% algorithm, no children's brains for adults, and really some something to spend it on at odds to make a world in price tag.

with their shooting, your TI-99/4A

has been only about five with which to do so. These instructions are intended to give you a range of "top" to "bottom" of the upper half of the tank, to some two minutes and judgment are required to keep the tank's "bullet" of the same point is to be fired from it.

On the 100% (extended) BASIC plus Joystick, you may wish to imagine that with Tank Battle you're in it for a rough time.

With a 100% algorithm, no children's brains for adults, and really some something to spend it on at odds to make a world in price tag.

100%
100%
100%
100%



Galactic Gunfight TI-99/4A (Extended BASIC) £10

Software Software, 10 Aldine Road, Swanton, Cheshire SA4 1AH

With a 100% algorithm, no children's brains for adults, and really some something to spend it on at odds to make a world in price tag.

Galactic Gunfight

To play the game, you must make your lunar pool through the "torpedo" fire to a "bullet" of the same point is to be fired from it.

On the 100% (extended) BASIC plus Joystick, you may wish to imagine that with Tank Battle you're in it for a rough time.

with their shooting, your TI-99/4A

has been only about five with which to do so. These instructions are intended to give you a range of "top" to "bottom" of the upper half of the tank, to some two minutes and judgment are required to keep the tank's "bullet" of the same point is to be fired from it.

On the 100% (extended) BASIC plus Joystick, you may wish to imagine that with Tank Battle you're in it for a rough time.

With a 100% algorithm, no children's brains for adults, and really some something to spend it on at odds to make a world in price tag.

with their shooting, your TI-99/4A

has been only about five with which to do so. These instructions are intended to give you a range of "top" to "bottom" of the upper half of the tank, to some two minutes and judgment are required to keep the tank's "bullet" of the same point is to be fired from it.

On the 100% (extended) BASIC plus Joystick, you may wish to imagine that with Tank Battle you're in it for a rough time.

With a 100% algorithm, no children's brains for adults, and really some something to spend it on at odds to make a world in price tag.



NOW AVAILABLE FROM W.H. SMITH

SUPER SPY

48K Spectrum
Dragon 32

Locate the secret island hideaway of the mysterious meglomaniac Dr. Death. Follow his trail across continents, through complex puzzles, coded messages and 3-D mazes. Discover the entrance to his underground lair — but beware — even with your death-defying gadgets his evil henchmen may still win the day!

Saving the world may take some time — so we've included a 'save' routine for part-time secret agents!

Credit Card Hotline
04286 43531

Now
available
for the
**DRAGON
32**

**Only
£6.50**

DEALER ENQUIRIES WELCOME — GENEROUS DISCOUNTS

Adventure Programs always wanted! Please send sample — generous cash payments!

RICHARD SHEPHERD SOFTWARE

ELM HOUSE, 23-25 ELMSHOTT LANE, CIPPENHAM, SLOUGH, BERKS. TEL. (04204) 43531



ASP SOFTWARE

A STEP BEYOND THE ARCADE...



Demon Knight - The Valley - Strategy 1 - Invasion - Strategy 2 - Blamark
White Dwarves - Detective - Cells & Serpents - Stockmarket
Conquering Everest - Clunk/Fenumbler - Gallery of Death - Flonethall



ASP SOFTWARE
145 Charing Cross Rd, London WC2H 0EE
Tel: 01-437 1002

Now available from:

Telnet Resources
Buckingham
Telnet Team Centre
Essexport

John W & David Ltd
40 Saxon St
Barnham BT16 6JG

Mail Ltd
1 Abbey St
St Helier
Jersey

Computer Sales
24 The Parade
Stretford
Manchester
M16 2JH

Software City
Sturminster Newton
Dorset DT9 9JH

SAI Computers Ltd
100 Canterbury
Canterbury CT1 2 8QJ

Paul Dale Computers
110 Ganges Avenue
Luton LU1 3JH

Transtech Ltd
100 High St
Luton
Luton

Wilson Brothers (Computers) Ltd
Unit 10, Broomfield
Widnes WA8 0JH

The Co-Store
101 Newmarket Road
Newmarket

Cambridge Software Centre
8 Thistle St
Cambridge CB2 1 3JH

City Computers Ltd
Unit 10, 11
Widnes WA8 0JH

Top Design Europe
100 High St
Luton LU1 3JH

30 Computers Ltd
100 Newmarket Road
Newmarket

Yard Sales
100 High St
Luton LU1 3JH

Philip Carter & Co Ltd
8 Watling Street
Canterbury CT1 2 8QJ

Merit Systems
100 High St
Luton LU1 3JH

SAI Computers
100 Canterbury
Canterbury CT1 2 8QJ

Central Computers Ltd
100 High St
Luton LU1 3JH

Wilson Computers Centre
100 High St
Luton LU1 3JH

Paul Dale Computers
100 Ganges Avenue
Luton LU1 3JH

Computer City
100 Sturminster Newton
Dorset DT9 9JH

Software City
100 Sturminster Newton
Dorset DT9 9JH

SAI Computers Ltd
100 Canterbury
Canterbury CT1 2 8QJ

Paul Dale Computers
100 Ganges Avenue
Luton LU1 3JH

Transtech Ltd
100 High St
Luton LU1 3JH

Wilson Brothers (Computers) Ltd
Unit 10, Broomfield
Widnes WA8 0JH

The Co-Store
101 Newmarket Road
Newmarket

Cambridge Software Centre
8 Thistle St
Cambridge CB2 1 3JH

City Computers Ltd
Unit 10, 11
Widnes WA8 0JH

Top Design Europe
100 High St
Luton LU1 3JH

30 Computers Ltd
100 Newmarket Road
Newmarket

Yard Sales
100 High St
Luton LU1 3JH

Philip Carter & Co Ltd
8 Watling Street
Canterbury CT1 2 8QJ

Merit Systems
100 High St
Luton LU1 3JH

SAI Computers Ltd
100 Canterbury
Canterbury CT1 2 8QJ

Paul Dale Computers
100 Ganges Avenue
Luton LU1 3JH

Transtech Ltd
100 High St
Luton LU1 3JH

ONE CHILD'S VIEW

It's not all fun and games for junior micro fans

I decided to write to you with my opinion after hearing more and more about how computers are taking over, and how more and more parents are, in my opinion, working to meet against their children using them.

The use of home computers by school children is often looked upon with disapproval by adults. The reason for this seems to be fairly obvious — most adults think of us being glued to our television sets, copying up and down or using power pads to our heart's content!

I am speaking for most others of my age group when I say that this comment is not only unjust but also untrue.

A great number of children do possess computers — in fact, it is probable that no one that has majority of computer sales over the past few years have been made to us youngsters.

However, although a few do use these machines solely for the purpose of playing games, a great many others appreciate the need for a computer not to play it for the parents, but for the age to come — the computer age.

None of us can get away from the fact that when we leave school, and start work, our jobs will be dominated by computers. The computer will be able to do over jobs that previously took hundreds of workers to do.

Those of us who are already working, or are at least familiar with these machines will have a definite head start on the rest — a head start that could prove to be invaluable to us. I am sure that no one can deny that fact.

So although, yes, we all enjoy a good computer game on our micros from time to time, most children (and some parents) do realise that learning to program and operate computers on our spare time now can serve us a lot of time, and gain us a better start in our future career — something that surely no one wants to neglect as of!

So please, next time someone says computers during a lesson, don't discourage them. Stop and think that in all probability they will have a better chance than most in the computer age that is to come — or is it here already?

Paul C. Smith
Schweickhd computer user, aged 15
Chesham,
Surrey

■ This space is for you to record all about the micro scene, to present opinions or to build a database. Start your story by mentioning the name Paul C. Smith, Chesham, Surrey, Home Computing Weekly, 145 Charing Cross Road, London WC2H 0EE. Please include your own opinion and your interest in computing.

SPECTRUM PROGRAM

[illegible][illegible]

```

4000 IF Y$="N" THEN GO TO 4100
4000 INPUT "HI OCTANE OR LO ? " H
4000 Y$=Y
4000 INPUT "HOW MANY CRYSTALS " C
4000 IF Y$="N" THEN LET P$="S" GO
    TO 4070
4000 LET P$="L"
4000 IF IS NOT C THEN PRINT "O
    DON'T AFFORD THEM " GO TO
    4010
4000 IF Y$="N" THEN LET CASH$="S
    -5000" LET P$="FUEL" GO TO 4100
4000 LET FUEL$="5000"
4000 IF C=0 THEN PRINT "SORRY -
    NO CASH" GO TO 4100
4000 LET FUEL$="5000" LET CASH$
    =CASH-C GO TO 4100
4100 INPUT "DO YOU WANT A CLUE ?
    Y/N" OPEN THE BONUS BOX
    C=C+1
4100 IF Y$="N" THEN GO TO 3000
4100 LET C=C+1
4100 PRINT "YOUR SCORE IS..."
4100 IF C=0 THEN PRINT "NO NEW
    RECRUITS" LET C=C+1
4100 IF C=1 THEN PRINT "NEW RECR
    UITS TO YOUR SHIP" LET C=C+1
4100 IF C=2 THEN LET C=C+1
    4100-11 PRINT "NEW RECRUITS"
    LET C=C+1
4100 IF C=3 THEN PRINT "NEW RECR
    UITS"

```

[illegible]

**If you missed
out on Breadboard
'79, '80, '81 and '82
Now's the time to catch up with
THE PREMIER SHOW FOR THE
ELECTRONICS ENTHUSIAST!**

CUNARD INTERNATIONAL EXHIBITION
CENTRE, CUNARD HOTEL, HAMMERSMITH,
LONDON W6.

Printed on Recycled Paper 50% Post Consumer Waste

Non-invasive Prenatal Testing (NIPT) 10-Week-4-yr

30 pages of copy. Authors: *see above*. 32 J. Feb. 1898. 100 copies. 4 pages.

Age Group	Percentage (%)
18-24	~10
25-34	~85
35-44	~75
45-54	~65
55-64	~55
65-74	~45
75-84	~35
85-94	~25

Offering improved facilities to the visitor, including car parking and ease of access by rail, tube and car, all in a modern and attractive setting.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Why not bring your partner to the show and enjoy a weekend in London? A complete hotel package is available to our visitors to the exhibition with all inclusive rail tickets. Send now for details of what we, the organisers, can offer you.

Highlighted Text

NSF **Edited and**

11. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

London: U.K. 1984.



THE UNIVERSITY OF CHICAGO PRESS

- Computer controlled model building competition (start off last evening from now)
- Kits, components and tools to build all sorts of projects
- Robotic display
- Components and tools at bargain prices
- Technical advice on electronics projects and their making techniques
- Computer Corner - 'Try before you buy'
- Lectures by professionals covering aspects of electronics and computing
- Holography and Producing Printed Circuit Boards
- Pick of the projects - Demonstration of the best from ELECTRONICS TODAY INTERNATIONAL HOBBY ELECTRONICS AND ELECTRONICS PROJECT

Top Ten programs for the Spectrum

- | | | |
|----|-------------------|----------------------|
| 1 | Flight Simulation | Psion (1) |
| 2 | Art Attack | Quickdraw (1) |
| 3 | Legend Jemini | Ultimate (2) |
| 4 | Zaxxon | Imagine (4) |
| 5 | Pool | ODS (6) |
| 6 | Trifol | Dark (1-) |
| 7 | Crescent Cove | Queen (3) |
| 8 | Kong | Psion (1-) |
| 9 | Scrabble | Melbourne House (1-) |
| 10 | Terror Doodle | Melbourne House (1-) |
| 11 | Robot | |

Compiled by M. H. Smith. Figures in brackets are last week's positions.

Top Ten programs for the Commodore 64

- | | | |
|----|--------------------|------------------|
| 1 | Howe Bomber | Lightsoft (8) |
| 2 | Crazy Kang | Interceptor (1-) |
| 3 | Excite MCP | Mable (2) |
| 4 | Spentmen | Interceptor (4) |
| 5 | Frigger | Interceptor (6) |
| 6 | Scrabble | Excite (3) |
| 7 | Amphibious | Rabbit (1-) |
| 8 | Learn Zone | Lightsoft (1-) |
| 9 | Tyke Attack | Salvo (1-) |
| 10 | Grand Master Chess | Autogames (3) |

Compiled by Boots. Figures in brackets are last week's positions.

Top Ten programs for the VIC-20

- | | | |
|----|----------------|----------------|
| 1 | Artistic | Imagine (2) |
| 2 | Catcha Snatcha | Imagine (4) |
| 3 | Wacky Walters | Imagine (3) |
| 4 | Range MCP | Rabbit (6) |
| 5 | Stylhawk | Quickdraw (1-) |
| 6 | Learn Zone | Lightsoft (2) |
| 7 | Paratroopers | Rabbit (5) |
| 8 | Birt | Commodore (1-) |
| 9 | Amok | Autogames (1-) |
| 10 | Mario | Lightsoft (1-) |

Compiled by Boots. Figures in brackets are last week's positions.

Top Ten programs for the Dragon

- | | | |
|----|------------------------|---------------|
| 1 | The King | Microdeal (2) |
| 2 | Artistic Attack | Microdeal (1) |
| 3 | Curtain Gate/Walkabout | Microdeal (4) |
| 4 | Frigger | Microdeal (5) |
| 5 | Griffin | Salvo (1-) |
| 6 | Shark Treasure | Quickdraw (2) |
| 7 | Minotaur | Dragon (1-) |
| 8 | Storm Attack | Salvo (1-) |
| 9 | Grand Prix | Watersoft (3) |
| 10 | Ring of Gargons | |

Compiled by Boots. Figures in brackets are last week's positions.

BEST SELLERS

Top 30

- | | | | |
|----|-------------------------|-----------------|---------------|
| 1 | Jet Pac | Ultimate | Spectrum (2) |
| 2 | Marco Miller | Big Bytes | Spectrum (1) |
| 3 | Trans-Am | Ultimate | Spectrum (3) |
| 4 | Zaxxon | Imagine | Spectrum (6) |
| 5 | Horror and the Soldiers | | |
| 6 | Kong | Pulse | Spectrum (22) |
| 7 | Cosmos | Cosmos | Spectrum (28) |
| 8 | Cosmos | Ultimate | Spectrum (4) |
| 9 | Killer Gophers | Program Power | BBG (1-) |
| 10 | Jemini's Jack | Imagine | Spectrum (25) |
| 11 | Hall of the Things | Crystal | Spectrum (23) |
| 12 | Splat | Proton | Spectrum (18) |
| 13 | Curtain Gate | | |
| 14 | Microdeal | Microdeal | Dragon (15) |
| 15 | Curtain in the Jungle | | |
| 16 | Krazy Kong | Amiga | VIC-20 (2) |
| 17 | Peak | Ultimate | Spectrum (11) |
| 18 | 3D Combat Zone | Artic | Spectrum (5) |
| 19 | Chuckie Egg | A & F | Spectrum (7) |
| 20 | Johnny Reb | Lobster | Spectrum (8) |
| 21 | Horror Gate | | |
| 22 | Skilling | Psion | Spectrum (16) |
| 23 | The Hobbit | Melbourne House | Spectrum (1-) |
| 24 | Frigger | Microdeal | Spectrum (14) |
| 25 | Penetration | Melbourne House | Spectrum (13) |
| 26 | Pool | ODS | Spectrum (1-) |
| 27 | The King | Microdeal | Dragon (1-) |
| 28 | The Hobbit | Melbourne House | CIM 64 (1-) |
| 29 | Valhalla | Lynx | Spectrum (1-) |
| 30 | Learn Jemini | Ultimate | Spectrum (1-) |
| 31 | Gunpoint Master | Crystal | Spectrum (20) |
| 32 | Barbed Wire | Imagine | VIC-20 (1-) |
| 33 | Handback | Superior | BBG (27) |

Compiled by PCS Distribution (0254 531211) and supported by the Computer Trade Association. Chart is for total sales in individual outlets in the UK and Northern Ireland for the fortnight ended November 6.

Top Ten programs for the ZX81

- | | | |
|----|-------------------|----------------|
| 1 | Football Manager | Addictive (1) |
| 2 | Scrabble | Quickdraw (2) |
| 3 | Flight Simulation | Spectra (1) |
| 4 | Artistic | Quickdraw (1-) |
| 5 | 16 Games | Spectra (2) |
| 6 | UK Chess | Spectra (3) |
| 7 | Defender | Quickdraw (1) |
| 8 | Invaders | Quickdraw (1-) |
| 9 | Planet of Death | Spectra (1-) |
| 10 | Line Game | Spectra (1-) |

Compiled by Boots. Figures in brackets are last week's positions.

MR CHIP SOFTWARE

SPECTRUM GAMES

SPECTRUM DARTS (40K)

Five games of darts for 1-3 players, 501, Cricket, Killer, Round the board, Noughts and Crosses, four levels of play per game, take on the computer or friends at these games of skill and judgement. £3.50

WHEELER DEALER

As for the Commodore 64, but now available for the 40K Spectrum, Texas Instruments and Dragon. £5.50

VIC-30

GAMES AND UTILITIES

JACKPOT

This is it, the ultimate Fruit Machine for the VIC with budget, hold and reaps 100% machine code. "Overall Jackpot is a beautifully written simulation giving superb graphics, animation and use of colour. In fact, the program makes Commodore's Fruit Machine cartridge look unbelievably cheap and easy." "Home Computing Weekly No. 20 19/7/83. £5.50

KWAZY KWAKS

Accuracy and speed are required for this Shooting Gallery, superb use of colour and graphics in this new and challenging game from the authors of Jackpot. 100% machine code, joystick or keyboard control. £5.50

PACMANIA

Choose your own game from the following options— difficulty 1-3 speed 1-3, use of maze 1-3, visible or invisible maze, stiller or moving powerpills, define your own key controls, any combination, if this is your type of game, then this is the one for you, for the 3K expand VIC. £5.50

BUGGY (Joystick Only)

This is a Minefield with a difference as you step on the stones while collecting purple boxes which give you both ore and points, they disappear from beneath your feet DO NOT DESPAIR! "BUGGY" will randomly replace the stones but avoid bumping into him or in sudden death! An original competitive and challenging game. £5.50

MINI-ROULETTE — PONTOON — HI-LOW

Three great games of chance for the VIC, try to beat the computer, hours of fun, full colour, random effects and more. £5.50

DATABASE — create your own files and records on tape
..... £3.50

SUPER BANK MANAGER — A full feature version any memory size, but needs 3K expansion. £7.00



COMMODORE 64 GAMES AND UTILITIES

JACKPOT 64

As last time, specially written for the 64, by the author of "JACKPOT" the ultimate Fruit Machine program for the VIC. £5.50
(available from Mr. Naps)

WESTMINSTER

A game for up to four players, can you lead the party of your phobes and win the general election, you use the 66 constituencies (seats) buying votes, when you can, (just like the real thing), this must be one of the first board type games specially written for the computer. Why play on your own, have fun with your family and friends playing WESTMINSTER. £5.50

WHEELER DEALER

A game for two to twenty players, become a tycoon of the motor trade, you must obtain garages, tyres and engines to produce cars for sale. Form syndicates, buy and exchange parts, buy dealerships, but be careful, you may become bankrupt and have to liquidate, find out what you are made of, have you got what it takes to become a WHEELER DEALER. £5.50

LUNAR RESCUE

Our new version, avoid the asteroid belt, to rescue the stranded astronauts, then fight your way back to the mother ship, four missions are required to safely land and dock your lunar module. £5.50

PURCHASE LEDGER

Easy to use, simple entry, handles 400 invoices per month, Gross/Net payments, V.A.T. £14.50
Disk Version £17.00
(available from Mr. Naps)

SALES LEDGER — As Above £14.50
Disk Version £17.00

CHIPMEN — Contains a one- or two- pass Assembler, Disassembler and Monitor. A programming aid for the development of machine code programs and routines on the C64 64. £12.50

BANK MANAGER — As our Super Bank Manager, but for the 64
New available on disc with added facilities. £10.00
Full documentation with all utility programs.
Other software available for the VIC and Commodore 64, send for free brochure, including RABBIT SOFTWARE at £3.50 each.

Send Cheques/PO's to:

MR CHIP SOFTWARE

Dept MCV, 1 NEVILLE PLACE,
LLANDUDNO,
GWYNEDD LL50 3BL. Tel 0492 49147

Wanted: High quality software, of all types, for export and UK distribution.

All programs now available on disc please allow £3.50 extra.

DEALER ENQUIRIES WELCOME

STADI PROGRAMS

DATE 12-1-84 BY TERRY L. LEE
 NAME: TERRY L. LEE
 TITLE: TERRY L. LEE
 UNIT: TERRY L. LEE
 OFFICE: TERRY L. LEE

1. *Journal of the American Medical Association*, 1997; 277: 103-107.
 2. *Journal of the American Medical Association*, 1997; 277: 108-112.
 3. *Journal of the American Medical Association*, 1997; 277: 113-117.

Abstract The purpose of this study was to examine the effects of a 6-week training program on the physical fitness and health-related quality of life (HRQL) of older adults. A total of 70 participants were randomly assigned to either a control group or an exercise group. The exercise group performed a combination of aerobic and strength training exercises three times per week. The control group did not participate in any structured exercise program. Data were collected at baseline and after 6 weeks. Results showed that the exercise group had significantly higher levels of physical fitness and HRQL compared to the control group at both time points. The improvements in physical fitness and HRQL were maintained at follow-up. These findings suggest that a 6-week training program can effectively improve physical fitness and HRQL in older adults.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

[illegible]

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

[Home](#)
[Tutorials](#)
[FAQ](#)
[Contact Us](#)

You're in charge of the ball and chain

Here's the second part of my Slave Labour game for the unexpanded TI-99/4A. Type it in and load it just before a 100-minute game.

Using the Dead Second keeps your job as to place a ball and chain on top of a ball and chain. Here's the program to place a ball and chain on top of a ball and chain.

If there's a ball and chain on top of a ball and chain, you're

Here's part two of Slave Labour, Iain Bartram's novel game for the unexpanded TI-99/4A

How it works

- 1000-1009: start of game
- 1010-1019: start of game
- 1020-1029: start of game
- 1030-1039: start of game
- 1040-1049: start of game
- 1050-1059: start of game
- 1060-1069: start of game
- 1070-1079: start of game
- 1080-1089: start of game
- 1090-1099: start of game
- 1100-1109: start of game
- 1110-1119: start of game
- 1120-1129: start of game
- 1130-1139: start of game
- 1140-1149: start of game
- 1150-1159: start of game
- 1160-1169: start of game
- 1170-1179: start of game
- 1180-1189: start of game
- 1190-1199: start of game

```

1000 NEXT I
1001 RETURN
1002 IF SL=0 THEN 2040
1003 FOR I=1 TO 20
1004 CALL RANDOM(1,32,32)
1005 NEXT I
1006 GOTO 2070
1007 RND=0
1008 IF RND=0 THEN 2100
1009 RND=1
1010 GOTO 2130
1011 RND=2
1012 IF RND=2 THEN 2160
1013 RND=3
1014 GOTO 2190
1015 IF RND=3 THEN 2220
1016 RND=4
1017 GOTO 2250
1018 IF RND=4 THEN 2280
1019 RND=5
1020 GOTO 2310
1021 IF RND=5 THEN 2340
1022 RND=6
1023 GOTO 2370
1024 IF RND=6 THEN 2400
1025 RND=7
1026 GOTO 2430
1027 IF RND=7 THEN 2460
1028 RND=8
1029 GOTO 2490
1030 IF RND=8 THEN 2520
1031 RND=9
1032 GOTO 2550
1033 IF RND=9 THEN 2580
1034 RND=10
1035 GOTO 2610
1036 IF RND=10 THEN 2640
1037 RND=11
1038 GOTO 2670
1039 IF RND=11 THEN 2700
1040 RND=12
1041 GOTO 2730
1042 IF RND=12 THEN 2760
1043 RND=13
1044 GOTO 2790
1045 IF RND=13 THEN 2820
1046 RND=14
1047 GOTO 2850
1048 IF RND=14 THEN 2880
1049 RND=15
1050 GOTO 2910
1051 IF RND=15 THEN 2940
1052 RND=16
1053 GOTO 2970
1054 IF RND=16 THEN 3000
1055 RND=17
1056 GOTO 3030
1057 IF RND=17 THEN 3060
1058 RND=18
1059 GOTO 3090
1060 IF RND=18 THEN 3120
1061 RND=19
1062 GOTO 3150
1063 IF RND=19 THEN 3180
1064 RND=20
1065 GOTO 3210
1066 IF RND=20 THEN 3240
1067 RND=21
1068 GOTO 3270
1069 IF RND=21 THEN 3300
1070 RND=22
1071 GOTO 3330
1072 IF RND=22 THEN 3360
1073 RND=23
1074 GOTO 3390
1075 IF RND=23 THEN 3420
1076 RND=24
1077 GOTO 3450
1078 IF RND=24 THEN 3480
1079 RND=25
1080 GOTO 3510
1081 IF RND=25 THEN 3540
1082 RND=26
1083 GOTO 3570
1084 IF RND=26 THEN 3600
1085 RND=27
1086 GOTO 3630
1087 IF RND=27 THEN 3660
1088 RND=28
1089 GOTO 3690
1090 IF RND=28 THEN 3720
1091 RND=29
1092 GOTO 3750
1093 IF RND=29 THEN 3780
1094 RND=30
1095 GOTO 3810
1096 IF RND=30 THEN 3840
1097 RND=31
1098 GOTO 3870
1099 IF RND=31 THEN 3900
1100 RND=32
1101 GOTO 3930
1102 IF RND=32 THEN 3960
1103 RND=33
1104 GOTO 3990
1105 IF RND=33 THEN 4020
1106 RND=34
1107 GOTO 4050
1108 IF RND=34 THEN 4080
1109 RND=35
1110 GOTO 4110
1111 IF RND=35 THEN 4140
1112 RND=36
1113 GOTO 4170
1114 IF RND=36 THEN 4200
1115 RND=37
1116 GOTO 4230
1117 IF RND=37 THEN 4260
1118 RND=38
1119 GOTO 4290
1120 IF RND=38 THEN 4320
1121 RND=39
1122 GOTO 4350
1123 IF RND=39 THEN 4380
1124 RND=40
1125 GOTO 4410
1126 IF RND=40 THEN 4440
1127 RND=41
1128 GOTO 4470
1129 IF RND=41 THEN 4500
1130 RND=42
1131 GOTO 4530
1132 IF RND=42 THEN 4560
1133 RND=43
1134 GOTO 4590
1135 IF RND=43 THEN 4620
1136 RND=44
1137 GOTO 4650
1138 IF RND=44 THEN 4680
1139 RND=45
1140 GOTO 4710
1141 IF RND=45 THEN 4740
1142 RND=46
1143 GOTO 4770
1144 IF RND=46 THEN 4800
1145 RND=47
1146 GOTO 4830
1147 IF RND=47 THEN 4860
1148 RND=48
1149 GOTO 4890
1150 IF RND=48 THEN 4920
1151 RND=49
1152 GOTO 4950
1153 IF RND=49 THEN 4980
1154 RND=50
1155 GOTO 5010
1156 IF RND=50 THEN 5040
1157 RND=51
1158 GOTO 5070
1159 IF RND=51 THEN 5100
1160 RND=52
1161 GOTO 5130
1162 IF RND=52 THEN 5160
1163 RND=53
1164 GOTO 5190
1165 IF RND=53 THEN 5220
1166 RND=54
1167 GOTO 5250
1168 IF RND=54 THEN 5280
1169 RND=55
1170 GOTO 5310
1171 IF RND=55 THEN 5340
1172 RND=56
1173 GOTO 5370
1174 IF RND=56 THEN 5400
1175 RND=57
1176 GOTO 5430
1177 IF RND=57 THEN 5460
1178 RND=58
1179 GOTO 5490
1180 IF RND=58 THEN 5520
1181 RND=59
1182 GOTO 5550
1183 IF RND=59 THEN 5580
1184 RND=60
1185 GOTO 5610
1186 IF RND=60 THEN 5640
1187 RND=61
1188 GOTO 5670
1189 IF RND=61 THEN 5700
1190 RND=62
1191 GOTO 5730
1192 IF RND=62 THEN 5760
1193 RND=63
1194 GOTO 5790
1195 IF RND=63 THEN 5820
1196 RND=64
1197 GOTO 5850
1198 IF RND=64 THEN 5880
1199 RND=65
1200 GOTO 5910
1201 IF RND=65 THEN 5940
1202 RND=66
1203 GOTO 5970
1204 IF RND=66 THEN 6000
1205 RND=67
1206 GOTO 6030
1207 IF RND=67 THEN 6060
1208 RND=68
1209 GOTO 6090
1210 IF RND=68 THEN 6120
1211 RND=69
1212 GOTO 6150
1213 IF RND=69 THEN 6180
1214 RND=70
1215 GOTO 6210
1216 IF RND=70 THEN 6240
1217 RND=71
1218 GOTO 6270
1219 IF RND=71 THEN 6300
1220 RND=72
1221 GOTO 6330
1222 IF RND=72 THEN 6360
1223 RND=73
1224 GOTO 6390
1225 IF RND=73 THEN 6420
1226 RND=74
1227 GOTO 6450
1228 IF RND=74 THEN 6480
1229 RND=75
1230 GOTO 6510
1231 IF RND=75 THEN 6540
1232 RND=76
1233 GOTO 6570
1234 IF RND=76 THEN 6600
1235 RND=77
1236 GOTO 6630
1237 IF RND=77 THEN 6660
1238 RND=78
1239 GOTO 6690
1240 IF RND=78 THEN 6720
1241 RND=79
1242 GOTO 6750
1243 IF RND=79 THEN 6780
1244 RND=80
1245 GOTO 6810
1246 IF RND=80 THEN 6840
1247 RND=81
1248 GOTO 6870
1249 IF RND=81 THEN 6900
1250 RND=82
1251 GOTO 6930
1252 IF RND=82 THEN 6960
1253 RND=83
1254 GOTO 6990
1255 IF RND=83 THEN 7020
1256 RND=84
1257 GOTO 7050
1258 IF RND=84 THEN 7080
1259 RND=85
1260 GOTO 7110
1261 IF RND=85 THEN 7140
1262 RND=86
1263 GOTO 7170
1264 IF RND=86 THEN 7200
1265 RND=87
1266 GOTO 7230
1267 IF RND=87 THEN 7260
1268 RND=88
1269 GOTO 7290
1270 IF RND=88 THEN 7320
1271 RND=89
1272 GOTO 7350
1273 IF RND=89 THEN 7380
1274 RND=90
1275 GOTO 7410
1276 IF RND=90 THEN 7440
1277 RND=91
1278 GOTO 7470
1279 IF RND=91 THEN 7500
1280 RND=92
1281 GOTO 7530
1282 IF RND=92 THEN 7560
1283 RND=93
1284 GOTO 7590
1285 IF RND=93 THEN 7620
1286 RND=94
1287 GOTO 7650
1288 IF RND=94 THEN 7680
1289 RND=95
1290 GOTO 7710
1291 IF RND=95 THEN 7740
1292 RND=96
1293 GOTO 7770
1294 IF RND=96 THEN 7800
1295 RND=97
1296 GOTO 7830
1297 IF RND=97 THEN 7860
1298 RND=98
1299 GOTO 7890
1300 IF RND=98 THEN 7920
1301 RND=99
1302 GOTO 7950
1303 IF RND=99 THEN 7980
1304 RND=100
1305 GOTO 8010
1306 IF RND=100 THEN 8040
1307 RND=101
1308 GOTO 8070
1309 IF RND=101 THEN 8100
1310 RND=102
1311 GOTO 8130
1312 IF RND=102 THEN 8160
1313 RND=103
1314 GOTO 8190
1315 IF RND=103 THEN 8220
1316 RND=104
1317 GOTO 8250
1318 IF RND=104 THEN 8280
1319 RND=105
1320 GOTO 8310
1321 IF RND=105 THEN 8340
1322 RND=106
1323 GOTO 8370
1324 IF RND=106 THEN 8400
1325 RND=107
1326 GOTO 8430
1327 IF RND=107 THEN 8460
1328 RND=108
1329 GOTO 8490
1330 IF RND=108 THEN 8520
1331 RND=109
1332 GOTO 8550
1333 IF RND=109 THEN 8580
1334 RND=110
1335 GOTO 8610
1336 IF RND=110 THEN 8640
1337 RND=111
1338 GOTO 8670
1339 IF RND=111 THEN 8700
1340 RND=112
1341 GOTO 8730
1342 IF RND=112 THEN 8760
1343 RND=113
1344 GOTO 8790
1345 IF RND=113 THEN 8820
1346 RND=114
1347 GOTO 8850
1348 IF RND=114 THEN 8880
1349 RND=115
1350 GOTO 8910
1351 IF RND=115 THEN 8940
1352 RND=116
1353 GOTO 8970
1354 IF RND=116 THEN 9000
1355 RND=117
1356 GOTO 9030
1357 IF RND=117 THEN 9060
1358 RND=118
1359 GOTO 9090
1360 IF RND=118 THEN 9120
1361 RND=119
1362 GOTO 9150
1363 IF RND=119 THEN 9180
1364 RND=120
1365 GOTO 9210
1366 IF RND=120 THEN 9240
1367 RND=121
1368 GOTO 9270
1369 IF RND=121 THEN 9300
1370 RND=122
1371 GOTO 9330
1372 IF RND=122 THEN 9360
1373 RND=123
1374 GOTO 9390
1375 IF RND=123 THEN 9420
1376 RND=124
1377 GOTO 9450
1378 IF RND=124 THEN 9480
1379 RND=125
1380 GOTO 9510
1381 IF RND=125 THEN 9540
1382 RND=126
1383 GOTO 9570
1384 IF RND=126 THEN 9600
1385 RND=127
1386 GOTO 9630
1387 IF RND=127 THEN 9660
1388 RND=128
1389 GOTO 9690
1390 IF RND=128 THEN 9720
1391 RND=129
1392 GOTO 9750
1393 IF RND=129 THEN 9780
1394 RND=130
1395 GOTO 9810
1396 IF RND=130 THEN 9840
1397 RND=131
1398 GOTO 9870
1399 IF RND=131 THEN 9900
1400 RND=132
1401 GOTO 9930
1402 IF RND=132 THEN 9960
1403 RND=133
1404 GOTO 9990
1405 IF RND=133 THEN 10000
1406 RND=134
1407 GOTO 10010
1408 IF RND=134 THEN 10020
1409 RND=135
1410 GOTO 10030
1411 IF RND=135 THEN 10040
1412 RND=136
1413 GOTO 10050
1414 IF RND=136 THEN 10060
1415 RND=137
1416 GOTO 10070
1417 IF RND=137 THEN 10080
1418 RND=138
1419 GOTO 10090
1420 IF RND=138 THEN 10100
1421 RND=139
1422 GOTO 10110
1423 IF RND=139 THEN 10120
1424 RND=140
1425 GOTO 10130
1426 IF RND=140 THEN 10140
1427 RND=141
1428 GOTO 10150
1429 IF RND=141 THEN 10160
1430 RND=142
1431 GOTO 10170
1432 IF RND=142 THEN 10180
1433 RND=143
1434 GOTO 10190
1435 IF RND=143 THEN 10200
1436 RND=144
1437 GOTO 10210
1438 IF RND=144 THEN 10220
1439 RND=145
1440 GOTO 10230
1441 IF RND=145 THEN 10240
1442 RND=146
1443 GOTO 10250
1444 IF RND=146 THEN 10260
1445 RND=147
1446 GOTO 10270
1447 IF RND=147 THEN 10280
1448 RND=148
1449 GOTO 10290
1450 IF RND=148 THEN 10300
1451 RND=149
1452 GOTO 10310
1453 IF RND=149 THEN 10320
1454 RND=150
1455 GOTO 10330
1456 IF RND=150 THEN 10340
1457 RND=151
1458 GOTO 10350
1459 IF RND=151 THEN 10360
1460 RND=152
1461 GOTO 10370
1462 IF RND=152 THEN 10380
1463 RND=153
1464 GOTO 10390
1465 IF RND=153 THEN 10400
1466 RND=154
1467 GOTO 10410
1468 IF RND=154 THEN 10420
1469 RND=155
1470 GOTO 10430
1471 IF RND=155 THEN 10440
1472 RND=156
1473 GOTO 10450
1474 IF RND=156 THEN 10460
1475 RND=157
1476 GOTO 10470
1477 IF RND=157 THEN 10480
1478 RND=158
1479 GOTO 10490
1480 IF RND=158 THEN 10500
1481 RND=159
1482 GOTO 10510
1483 IF RND=159 THEN 10520
1484 RND=160
1485 GOTO 10530
1486 IF RND=160 THEN 10540
1487 RND=161
1488 GOTO 10550
1489 IF RND=161 THEN 10560
1490 RND=162
1491 GOTO 10570
1492 IF RND=162 THEN 10580
1493 RND=163
1494 GOTO 10590
1495 IF RND=163 THEN 10600
1496 RND=164
1497 GOTO 10610
1498 IF RND=164 THEN 10620
1499 RND=165
1500 GOTO 10630
1501 IF RND=165 THEN 10640
1502 RND=166
1503 GOTO 10650
1504 IF RND=166 THEN 10660
1505 RND=167
1506 GOTO 10670
1507 IF RND=167 THEN 10680
1508 RND=168
1509 GOTO 10690
1510 IF RND=168 THEN 10700
1511 RND=169
1512 GOTO 10710
1513 IF RND=169 THEN 10720
1514 RND=170
1515 GOTO 10730
1516 IF RND=170 THEN 10740
1517 RND=171
1518 GOTO 10750
1519 IF RND=171 THEN 10760
1520 RND=172
1521 GOTO 10770
1522 IF RND=172 THEN 10780
1523 RND=173
1524 GOTO 10790
1525 IF RND=173 THEN 10800
1526 RND=174
1527 GOTO 10810
1528 IF RND=174 THEN 10820
1529 RND=175
1530 GOTO 10830
1531 IF RND=175 THEN 10840
1532 RND=176
1533 GOTO 10850
1534 IF RND=176 THEN 10860
1535 RND=177
1536 GOTO 10870
1537 IF RND=177 THEN 10880
1538 RND=178
1539 GOTO 10890
1540 IF RND=178 THEN 10900
1541 RND=179
1542 GOTO 10910
1543 IF RND=179 THEN 10920
1544 RND=180
1545 GOTO 10930
1546 IF RND=180 THEN 10940
1547 RND=181
1548 GOTO 10950
1549 IF RND=181 THEN 10960
1550 RND=182
1551 GOTO 10970
1552 IF RND=182 THEN 10980
1553 RND=183
1554 GOTO 10990
1555 IF RND=183 THEN 11000
1556 RND=184
1557 GOTO 11010
1558 IF RND=184 THEN 11020
1559 RND=185
1560 GOTO 11030
1561 IF RND=185 THEN 11040
1562 RND=186
1563 GOTO 11050
1564 IF RND=186 THEN 11060
1565 RND=187
1566 GOTO 11070
1567 IF RND=187 THEN 11080
1568 RND=188
1569 GOTO 11090
1570 IF RND=188 THEN 11100
1571 RND=189
1572 GOTO 11110
1573 IF RND=189 THEN 11120
1574 RND=190
1575 GOTO 11130
1576 IF RND=190 THEN 11140
1577 RND=191
1578 GOTO 11150
1579 IF RND=191 THEN 11160
1580 RND=192
1581 GOTO 11170
1582 IF RND=192 THEN 11180
1583 RND=193
1584 GOTO 11190
1585 IF RND=193 THEN 11200
1586 RND=194
1587 GOTO 11210
1588 IF RND=194 THEN 11220
1589 RND=195
1590 GOTO 11230
1591 IF RND=195 THEN 11240
1592 RND=196
1593 GOTO 11250
1594 IF RND=196 THEN 11260
1595 RND=197
1596 GOTO 11270
1597 IF RND=197 THEN 11280
1598 RND=198
1599 GOTO 11290
1600 IF RND=198 THEN 11300
1601 RND=199
1602 GOTO 11310
1603 IF RND=199 THEN 11320
1604 RND=200
1605 GOTO 11330
1606 IF RND=200 THEN 11340
1607 RND=201
1608 GOTO 11350
1609 IF RND=201 THEN 11360
1610 RND=202
1611 GOTO 11370
1612 IF RND=202 THEN 11380
1613 RND=203
1614 GOTO 11390
1615 IF RND=203 THEN 11400
1616 RND=204
1617 GOTO 11410
1618 IF RND=204 THEN 11420
1619 RND=205
1620 GOTO 11430
1621 IF RND=205 THEN 11440
1622 RND=206
1623 GOTO 11450
1624 IF RND=206 THEN 11460
1625 RND=207
1626 GOTO 11470
1627 IF RND=207 THEN 11480
1628 RND=208
1629 GOTO 11490
1630 IF RND=208 THEN 11500
1631 RND=209
1632 GOTO 11510
1633 IF RND=209 THEN 11520
1634 RND=210
1635 GOTO 11530
1636 IF RND=210 THEN 11540
1637 RND=211
1638 GOTO 11550
1639 IF RND=211 THEN 11560
1640 RND=212
1641 GOTO 11570
1642 IF RND=212 THEN 11580
1643 RND=213
1644 GOTO 11590
1645 IF RND=213 THEN 11600
1646 RND=214
1647 GOTO 11610
1648 IF RND=214 THEN 11620
1649 RND=215
1650 GOTO 11630
1651 IF RND=215 THEN 11640
1652 RND=216
1653 GOTO 11650
1654 IF RND=216 THEN 11660
1655 RND=217
1656 GOTO 11670
1657 IF RND=217 THEN 11680
1658 RND=218
1659 GOTO 11690
1660 IF RND=218 THEN 11700
1661 RND=219
1662 GOTO 11710
1663 IF RND=219 THEN 11720
1664 RND=220
1665 GOTO 11730
1666 IF RND=220 THEN 11740
1667 RND=221
1668 GOTO 11750
1669 IF RND=221 THEN 11760
1670 RND=222
1671 GOTO 11770
1672 IF RND=222 THEN 11780
1673 RND=223
1674 GOTO 11790
1675 IF RND=223 THEN 11800
1676 RND=224
1677 GOTO 11810
1678 IF RND=224 THEN 11820
1679 RND=225
1680 GOTO 11830
1681 IF RND=225 THEN 11840
1682 RND=226
1683 GOTO 11850
1684 IF RND=226 THEN 11860
1685 RND=227
1686 GOTO 11870
1687 IF RND=227 THEN 11880
1688 RND=228
1689 GOTO 11890
1690 IF RND=228 THEN 11900
1691 RND=229
1692 GOTO 11910
1693 IF RND=229 THEN 11920
1694 RND=230
1695 GOTO 11930
1696 IF RND=230 THEN 11940
1697 RND=231
1698 GOTO 11950
1699 IF RND=231 THEN 11960
1700 RND=232
1701 GOTO 11970
1702 IF RND=232 THEN 11980
1703 RND=233
1704 GOTO 11990
1705 IF RND=233 THEN 12000
1706 RND=234
1707 GOTO 12010
1708 IF RND=234 THEN 12020
1709 RND=235
1710 GOTO 12030
1711 IF RND=235 THEN 12040
1712 RND=236
1713 GOTO 12050
1714 IF RND=236 THEN 12060
1715 RND=237
1716 GOTO 12070
1717 IF RND=237 THEN 12080
1718 RND=238
1719 GOTO 12090
1720 IF RND=238 THEN 12100
1721 RND=239
1722 GOTO 12110
1723 IF RND=239 THEN 12120
1724 RND=240
1725 GOTO 12130
1726 IF RND=240 THEN 12140
1727 RND=241
1728 GOTO 12150
1729 IF RND=241 THEN 12160
1730 RND=242
1731 GOTO 12170
1732 IF RND=242 THEN 12180
1733 RND=243
1734 GOTO 12190
1735 IF RND=243 THEN 12200
1736 RND=244
1737 GOTO 12210
1738 IF RND=244 THEN 12220
1739 RND=245
1740 GOTO 12230
1741 IF RND=245 THEN 12240
1742 RND=246
1743 GOTO 12250
1744 IF RND=246 THEN 12260
1745 RND=247
1746 GOTO 12270
1747 IF RND=247 THEN 12280
1748 RND=248
1749 GOTO 12290
1750 IF RND=248 THEN 12300
1751 RND=249
1752 GOTO 12310
1753 IF RND=249 THEN 12320
1754 RND=250
1755 GOTO 12330
1756 IF RND=250 THEN 12340
1757 RND=251
1758 GOTO 12350
1759 IF RND=251 THEN 12360
1760 RND=252
1761 GOTO 12370
1762 IF RND=252 THEN 12380
1763 RND=253
1764 GOTO 12390
1765 IF RND=253 THEN 12400
1766 RND=254
1767 GOTO 12410
1768 IF RND=254 THEN 12420
1769 RND=255
1770 GOTO 12430
1771 IF RND=255 THEN 12440
1772 RND=256
1773 GOTO 12450
1774 IF RND=256 THEN 12460
1775 RND=257
1776 GOTO 12470
1777 IF RND=257 THEN 12480
1778 RND=258
1779 GOTO 12490
1780 IF RND=258 THEN 12500
1781 RND=259
1782 GOTO 12510
1783 IF RND=259 THEN 12520
1784 RND=260
1785 GOTO 12530
1786 IF RND=260 THEN 12540
1787 RND=261
1788 GOTO 12550
1789 IF RND=261 THEN 12560
1790 RND=262
1791 GOTO 12570
1792 IF RND=262 THEN 12580
1793 RND=263
1794 GOTO 12590
1795 IF RND=263 THEN 12600
1796 RND=264
1797 GOTO 12610
1798 IF RND=264 THEN 12620
1799 RND=265
1800 GOTO 12630
1801 IF RND=265 THEN 12640
1802 RND=266
1803 GOTO 12650
1804 IF RND=266 THEN 12660
1805 RND=267
1806 GOTO 12670
1807 IF RND=267 THEN 12680
1808 RND=268
1809 GOTO 12690
1810 IF RND=268 THEN 12700
1811 RND=269
1812 GOTO 12710
1813 IF RND=269 THEN 12720
1814 RND=270
1815 GOTO 12730
1816 IF RND=270 THEN 12740
1817 RND=271
1818 GOTO 12750
1819 IF RND=271 THEN 12760
1820 RND=272
1821 GOTO 12770
1822 IF RND=272 THEN 12780
1823 RND=273
1824 GOTO 12790
1825 IF RND=273 THEN 12800
1826 RND=274
1827 GOTO 12810
1828 IF RND=274 THEN 12820
1829 RND=275
1830 GOTO 12830
1831 IF RND=275 THEN 12840
1832 RND=276
1833 GOTO 12850
1834 IF RND=276 THEN 12860
1835 RND=277
1836 GOTO 12870
1837 IF RND=277 THEN 12880
1838 RND=278
1839 GOTO 12890
1840
```




LÄSER SNACKER

ENTER TO WIN PLUS MANY OTHER PRIZES
 If you are selected as a winner, you will receive a cash prize of \$10,000. In addition, the winner will receive a cash prize of \$10,000. In addition, the winner will receive a cash prize of \$10,000. In addition, the winner will receive a cash prize of \$10,000.

By saving the egg plant in Staker, *g* was by searching within three eggs. With powerful and versatile programs, Staker could handle with an accuracy of 1.0. It was an efficient and highly accurate program. The program through the water model, the *g* was at the oil recovery.

How far left is your business? At the bottom of the LEANED FORWARD framework, under the column, 100% marketing focus, we only suggest a color and sound progression (offering levels, in our view, 70% to 90% focus, depending on demand) as a caution. It is the best place to ensure customer engagement.

© 2001 Blackwell Science Ltd *Journal of Internal Medicine* 250: 103–110

£5.95

**E100 PRIZE
TO BE WON**

Abstract

POPEY
SOFT

The following Commission staff members have been assigned to the project:

100

1000

Please describe (and if necessary, list) the
 services or program(s) you wish to add to
 the existing
 program(s):

100

